

Refine Search

Search Results -

Terms	Documents
L2 and (560/\$ or 528/\$ or 428/\$)	30

Database:

US Pre-Grant Publication Full-Text Database
US Patents Full-Text Database
US OCR Full-Text Database
EPO Abstracts Database
JPO Abstracts Database
Derwent World Patents Index
IBM Technical Disclosure Bulletins

Search:

L3

[Refine Search](#)[Recall Text](#)[Clear](#)[Interrupt](#)

Search History

DATE: Tuesday, December 19, 2006 [Purge Queries](#) [Printable Copy](#) [Create Case](#)

Set Name Query
side by side

Hit Count Set Name
result set

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=ADJ

<u>L3</u>	L2 and (560/\$ or 528/\$ or 428/\$)	30	<u>L3</u>
<u>L2</u>	L1 and (acryloyl\$7 or cinnamoyl\$7)	45	<u>L2</u>
<u>L1</u>	mesogen and amino and polymerizable	140	<u>L1</u>

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 30 returned.

☐ 1. Document ID: US 20060188712 A1

L3: Entry 1 of 30

File: PGPB

Aug 24, 2006

PGPUB-DOCUMENT-NUMBER: 20060188712

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060188712 A1

TITLE: Adhesive composition, adhesive optical film and image display device

PUBLICATION-DATE: August 24, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Okada; Kenichi	Osaka		JP
Takahashi; Toshitaka	Osaka		JP
Kanamaru; Mika	Osaka		JP
Umeda; Michio	Osaka		JP

US-CL-CURRENT: [428/354](#); [428/355R](#), [428/522](#), [526/277](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 2. Document ID: US 20060083867 A1

L3: Entry 2 of 30

File: PGPB

Apr 20, 2006

PGPUB-DOCUMENT-NUMBER: 20060083867

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060083867 A1

TITLE: Retarder and circular polarizer

PUBLICATION-DATE: April 20, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Ito; Tadashi	Minami-ashigara-shi, Kanagawa		JP
Takeuchi; Hiroshi	Minami-ashigara-shi, Kanagawa		JP

US-CL-CURRENT: [428/1.3](#); [349/117](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 3. Document ID: US 20060051524 A1

L3: Entry 3 of 30

File: PGPB

Mar 9, 2006

PGPUB-DOCUMENT-NUMBER: 20060051524

PGPUB-FILING-TYPE:

DOCUMENT-IDENTIFIER: US 20060051524 A1

TITLE: Hybrid polymer materials for liquid crystal alignment layers

PUBLICATION-DATE: March 9, 2006

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Gibbons; Wayne M.	Bear	DE	US
Reppy; Michael G. P.	Wilmington	DE	US
Rose; Patricia A.	Wilmington	DE	US
Zheng; Hanxing	Wilmington	DE	US

US-CL-CURRENT: 428/1.2; 349/123, 428/1.26

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 4. Document ID: US 20050197450 A1

L3: Entry 4 of 30

File: PGPB

Sep 8, 2005

PGPUB-DOCUMENT-NUMBER: 20050197450

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20050197450 A1

TITLE: Pressure-sensitive adhesive composition, pressure-sensitive adhesive sheets and surface protecting film

PUBLICATION-DATE: September 8, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Amano, Tatsumi	Ibaraki-shi		JP
Ando, Masahiko	Ibaraki-shi		JP
Okumura, Kazuhito	Ibaraki-shi		JP
Kobayashi, Natsuki	Ibaraki-shi		JP

US-CL-CURRENT: 525/30; 428/343, 428/355R

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KMC	Draw D
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☐ 5. Document ID: US 20050142302 A1

L3: Entry 5 of 30

File: PGPB

Jun 30, 2005

PGPUB-DOCUMENT-NUMBER: 20050142302
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050142302 A1

TITLE: Alignment-layer-attached film for optical element use

PUBLICATION-DATE: June 30, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nakamura, Runa	Tokyo-to		JP

US-CL-CURRENT: 428/1.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 6. Document ID: US 20050045854 A1

L3: Entry 6 of 30

File: PGPB

Mar 3, 2005

PGPUB-DOCUMENT-NUMBER: 20050045854
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050045854 A1

TITLE: Cholesteric liquid crystal copolymers and additives

PUBLICATION-DATE: March 3, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Radcliffe, Marc D.	Newport	MN	US
Pokorny, Richard J.	Maplewood	MN	US
Spawn, Terence D.	Stillwater	MN	US
Solomonson, Steven D.	Shoreview	MN	US

US-CL-CURRENT: 252/299.7; 252/299.65, 252/299.67, 428/1.1

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 7. Document ID: US 20050003107 A1

L3: Entry 7 of 30

File: PGPB

Jan 6, 2005

PGPUB-DOCUMENT-NUMBER: 20050003107
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20050003107 A1

TITLE: Alignment facilities for optical dyes

PUBLICATION-DATE: January 6, 2005

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Kumar, Anil	Pittsburgh	PA	US
Foller, Peter C.	Murrysville	PA	US
Shao, Jiping	Monroeville	PA	US

US-CL-CURRENT: 428/1.1; 427/162, 427/421.1, 427/430.1, 428/1.6, 428/336

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 8. Document ID: US 20040219305 A1

L3: Entry 8 of 30

File: PGPB

Nov 4, 2004

PGPUB-DOCUMENT-NUMBER: 20040219305

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040219305 A1

TITLE: Retardation film and elliptically polarizing film

PUBLICATION-DATE: November 4, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nishikawa, Hideyuki	Kanagawa		JP
Ohkawa, Atsuhiko	Kanagawa		JP

US-CL-CURRENT: 428/1.2

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KIMC	Draw D
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☐ 9. Document ID: US 20040199004 A1

L3: Entry 9 of 30

File: PGPB

Oct 7, 2004

PGPUB-DOCUMENT-NUMBER: 20040199004

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040199004 A1

TITLE: Novel mesogens

PUBLICATION-DATE: October 7, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wellinghoff, Stephen T.	San Antonio	TX	US

Hanson, Douglas P.

San Antonio

TX

US

US-CL-CURRENT: 560/19; 560/66

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 10: Document ID: US 20040144954 A1

L3: Entry 10 of 30

File: PGPB

Jul 29, 2004

PGPUB-DOCUMENT-NUMBER: 20040144954

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040144954 A1

TITLE: Selective ether cleavage synthesis of liquid crystals

PUBLICATION-DATE: July 29, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wellinghoff, Stephen T.	San Antonio	TX	US
Hanson, Douglas P.	San Antonio	TX	US

US-CL-CURRENT: 252/299.67; 252/299.01, 560/76, 560/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 11. Document ID: US 20040142116 A1

L3: Entry 11 of 30

File: PGPB

Jul 22, 2004

PGPUB-DOCUMENT-NUMBER: 20040142116

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20040142116 A1

TITLE: Compound, retardation plate and method for forming optically anisotropic layer

PUBLICATION-DATE: July 22, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Nishikawa, Hideyuki	Kanagawa		JP
Ohkawa, Atsuhiko	Kanagawa		JP

US-CL-CURRENT: 428/1.1; 252/299.01, 252/299.61, 252/299.62, 252/299.63, 252/299.67

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 12. Document ID: US 20030055280 A1

L3: Entry 12 of 30

File: PGPB

Mar 20, 2003

PGPUB-DOCUMENT-NUMBER: 20030055280

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20030055280 A1

TITLE: Methods for synthesis of liquid crystals

PUBLICATION-DATE: March 20, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wellinghoff, Stephen T.	San Antonio	TX	US
Hanson, Douglas P.	San Antonio	TX	US

US-CL-CURRENT: 560/76; 560/8

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 13. Document ID: US 20020177727 A1

L3: Entry 13 of 30

File: PGPB

Nov 28, 2002

PGPUB-DOCUMENT-NUMBER: 20020177727

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020177727 A1

TITLE: Novel mesogens

PUBLICATION-DATE: November 28, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Wellinghoff, Stephen T.	San Antonio	TX	US
Hanson, Douglas P.	San Antonio	CA	US

US-CL-CURRENT: 560/86; 428/1.1, 528/308

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 14. Document ID: US 7147800 B2

L3: Entry 14 of 30

File: USPT

Dec 12, 2006

US-PAT-NO: 7147800

DOCUMENT-IDENTIFIER: US 7147800 B2

TITLE: Selective ether cleavage synthesis of liquid crystals

PRIOR-PUBLICATION:

DOC-ID	DATE
US 20040144954 A1	July 29, 2004

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Drawings
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☐ 15. Document ID: US 7108801 B2

L3: Entry 15 of 30

File: USPT

Sep 19, 2006

US-PAT-NO: 7108801

DOCUMENT-IDENTIFIER: US 7108801 B2

TITLE: Methods and blends for controlling rheology and transition temperature of liquid crystals

PRIOR-PUBLICATION:

DOC-ID	DATE
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US 20030036609 A1

February 20, 2003

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 16. Document ID: US 7098359 B2

L3: Entry 16 of 30

File: USPT

Aug 29, 2006

US-PAT-NO: 7098359

DOCUMENT-IDENTIFIER: US 7098359 B2

TITLE: Mesogens and methods for their synthesis and use

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030168633 A1

September 11, 2003

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 17. Document ID: US 7094360 B2

L3: Entry 17 of 30

File: USPT

Aug 22, 2006

US-PAT-NO: 7094360

DOCUMENT-IDENTIFIER: US 7094360 B2

TITLE: Resin blends and methods for making same

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20050189516 A1

September 1, 2005

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 18. Document ID: US 7041234 B2

L3: Entry 18 of 30

File: USPT

May 9, 2006

US-PAT-NO: 7041234

DOCUMENT-IDENTIFIER: US 7041234 B2

**** See image for Certificate of Correction ****

TITLE: Methods for synthesis of liquid crystals

PRIOR-PUBLICATION:

DOC-ID

DATE

US 20030055280 A1

March 20, 2003

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 19. Document ID: US 6749771 B1

L3: Entry 19 of 30

File: USPT

Jun 15, 2004

US-PAT-NO: 6749771

DOCUMENT-IDENTIFIER: US 6749771 B1

**** See image for Certificate of Correction ****

TITLE: Compounds as components in polymerizable liquid crystalline mixtures and liquid crystal polymer networks comprising them

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 20. Document ID: US 6677273 B2

L3: Entry 20 of 30

File: USPT

Jan 13, 2004

US-PAT-NO: 6677273

DOCUMENT-IDENTIFIER: US 6677273 B2

TITLE: Erasable recording material capable of inputting additional information written thereon and information recording system and information recording method using the recording material

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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Search Results - Record(s) 21 through 30 of 30 returned.

☐ 21. Document ID: US 6440328 B1

L3: Entry 21 of 30

File: USPT

Aug 27, 2002

US-PAT-NO: 6440328

DOCUMENT-IDENTIFIER: US 6440328 B1

**** See image for Certificate of Correction ****

TITLE: Preparation of acrylated liquid-crystalline compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 22. Document ID: US 6432518 B1

L3: Entry 22 of 30

File: USPT

Aug 13, 2002

US-PAT-NO: 6432518

DOCUMENT-IDENTIFIER: US 6432518 B1

TITLE: Erasable recording material capable of inputting additional information written thereon and information recording system and information recording method using the recording material.

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 23. Document ID: US 6136225 A

L3: Entry 23 of 30

File: USPT

Oct 24, 2000

US-PAT-NO: 6136225

DOCUMENT-IDENTIFIER: US 6136225 A

TITLE: Polymerizable liquid-crystalline compounds

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw. De
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☐ 24. Document ID: US 5843333 A

L3: Entry 24 of 30

File: USPT

Dec 1, 1998

US-PAT-NO: 5843333

DOCUMENT-IDENTIFIER: US 5843333 A

**** See image for Certificate of Correction ****

TITLE: Metallo organo liquid crystals in a polymer matrix

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 25. Document ID: US 5342904 A

L3: Entry 25 of 30

File: USPT

Aug 30, 1994

US-PAT-NO: 5342904

DOCUMENT-IDENTIFIER: US 5342904 A

**** See image for Certificate of Correction ****

TITLE: Polymer modified adducts of epoxy resins and active hydrogen containing compounds containing mesogenic moieties

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 26. Document ID: US 5256784 A

L3: Entry 26 of 30

File: USPT

Oct 26, 1993

US-PAT-NO: 5256784

DOCUMENT-IDENTIFIER: US 5256784 A

**** See image for Certificate of Correction ****

TITLE: Nonlineaphores and polymers incorporating such nonlineaphores

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 27. Document ID: US 5235008 A

L3: Entry 27 of 30

File: USPT

Aug 10, 1993

US-PAT-NO: 5235008

DOCUMENT-IDENTIFIER: US 5235008 A

**** See image for Certificate of Correction ****

TITLE: Polymer modified adducts of epoxy resins and active hydrogen containing compounds containing mesogenic moieties

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 28. Document ID: US 5232801 A

L3: Entry 28 of 30

File: USPT

Aug 3, 1993

US-PAT-NO: 5232801

DOCUMENT-IDENTIFIER: US 5232801 A

TITLE: Hole-transport liquid crystalline polymeric compounds, electrophotographic elements comprising same, and electrophotographic process

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 29. Document ID: US 5087672 A

L3: Entry 29 of 30

File: USPT

Feb 11, 1992

US-PAT-NO: 5087672

DOCUMENT-IDENTIFIER: US 5087672 A

**** See image for Certificate of Correction ****

TITLE: Fluorine-containing acrylate and methacrylate side-chain liquid crystal monomers and polymers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 30. Document ID: US 5078910 A

L3: Entry 30 of 30

File: USPT

Jan 7, 1992

US-PAT-NO: 5078910

DOCUMENT-IDENTIFIER: US 5078910 A

**** See image for Certificate of Correction ****

TITLE: Polimerization of liquid crystalline monomers

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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NEWS 27 DEC 18 CA/CAPLUS pre-1967 chemical substance index entries enhanced
 with preparation role
 NEWS 28 DEC 18 CA/CAPLUS patent kind codes updated
 NEWS 29 DEC 18 MARPAT to CA/CAPLUS accession number crossover limit increased
 to 50,000
 NEWS 30 DEC 18 MEDLINE updated in preparation for 2007 reload
 NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
 AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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 NEWS IPC8 For general information regarding STN implementation of IPC 8
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	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

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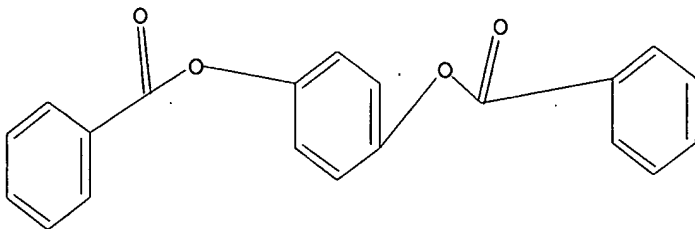
Uploading C:\Program Files\Stnexp\Queries\121.str

L1 STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 17:40:34 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 50595 TO ITERATE

100.0% PROCESSED 50595 ITERATIONS

5797 ANSWERS

SEARCH TIME: 00.00.01

L2 5797 SEA SSS FUL L1

L3 2613 L2

=> s l3 and polymerizable

27928 POLYMERIZABLE

L4 223 L3 AND POLYMERIZABLE

=> s l3 and (hydroxyl or amino or sulfhydryl)

118286 HYDROXYL

1097687 AMINO

23665 SULFHYDRYL

L5 78 L3 AND (HYDROXYL OR AMINO OR SULFHYDRYL)

=> S L4 AND L5

L6 6 L4 AND L5

=> s l3 and spacer

49007 SPACER

L7 120 L3 AND SPACER

=> s l3 and mesogen

2283 MESOGEN

L8 130 L3 AND MESOGEN

=> s l4 or l5 or l7 or l8

L9 482 L4 OR L5 OR L7 OR L8

=> s 19 and py<2001
20884436 PY<2001

L10 239 L9 AND PY<2001

=> s 110 and (acrylo? or cinnamoyl?)
114136 ACRYLO?
6098 CINNAMOYL?

L11 25 L10 AND (ACRYLO? OR CINNAMOYL?)

=> d 1-25 ibib abs hitstr

L11 ANSWER 1 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:756661 CAPLUS

DOCUMENT NUMBER: 133:342569

TITLE: Preparation of liquid crystal compounds

INVENTOR(S): Cherkaoui, Zoubair Mohammed; Benecke, Carsten;
Schmitt, Klaus

PATENT ASSIGNEE(S): Rollic A.-G., Switz.

SOURCE: PCT Int. Appl., 48 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000063154	A1	20001026	WO 2000-IB448	20000411 <--
W:				
AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR,				
CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU,				
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LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE,				
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EP 1187802	A1	20020320	EP 2000-914329	20000411
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JP 2002542219	T	20021210	JP 2000-612251	20000411
EP 1295863	A1	20030326	EP 2001-810929	20010924
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AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 6746729	B1	20040608	US 2001-959013	20011017
WO 2003027056	A1	20030403	WO 2002-CH525	20020923
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LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,				
PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,				
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RW:				
GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,				
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FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF,				
CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1432673	A1	20040630	EP 2002-760026	20020923
R:				
AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
CN 1556787	A	20041222	CN 2002-818661	20020923
JP 2005502730	T	20050127	JP 2003-530647	20020923

US 2005040364
PRIORITY APPLN. INFO.:

A1 20050224

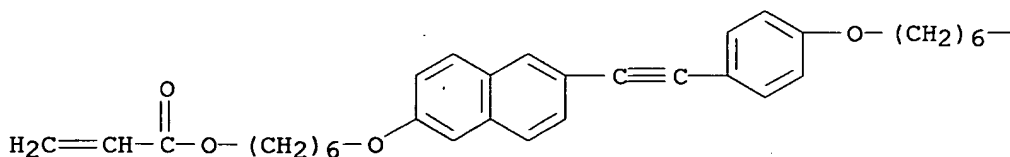
US 2004-490423
GB 1999-8934
WO 2000-IB448
EP 2001-810929
WO 2002-CH525

20041029
A 19990419
W 20000411
A 20010924
W 20020923

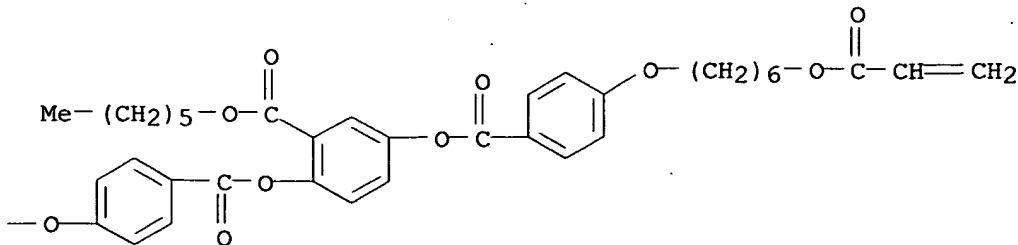
OTHER SOURCE(S): MARPAT 133:342569

- AB The invention provides compds. of formula A1A3MG1B1A4MG2A2, wherein A1 to A4 are independently selected from H, Me and a hydrocarbon group containing from 2 to 80 carbon atoms in which one or more carbon atoms are optionally replaced by a heteroatom selected from the group consisting -O-, -S- and -N- with the proviso that no two heteroatoms are joined together and at least one of A1 to A4 includes a polymerizable group; B1 represents a hydrocarbon group containing from 4 to 80 carbon atoms, in which one or more carbon atoms are optionally replaced by a heteroatom selected from the group consisting -O-, -S- and -N- with the proviso that no two heteroatoms are joined together; MG1 and MG2 are the same or different and each independently represents an aromatic or non-aromatic carbocyclic or heterocyclic ring system containing from 1 to 80 carbon atoms, with the proviso that firstly at least one of MG1 and MG2 comprises at least two ring systems and secondly, when MG1 and MG2 are identical each of A1 and A2 or A3 and A4 are different. The invention also provides liquid crystalline mixts. and optical or electro-optical devices including compds. of formula (I).
- IT 304021-55-4P
RL: IMF (Industrial manufacture); PREP (Preparation)
(preparation of; as liquid crystal compds.)
- RN 304021-55-4 CAPLUS
- CN Benzoic acid, 5-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-2-[[4-[[6-[[4-[[6-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-2-naphthalenyl]ethynyl]phenoxy]hexyl]oxy]benzoyl]oxy]-, hexyl ester (9CI)
(CA INDEX NAME)

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PAGE 1-B



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 2 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:755292 CAPLUS

DOCUMENT NUMBER: 133:323006

TITLE: Thermostable, liquid-crystalline pigments, films, pearlescent coatings and polymerizable mixtures for their preparation

INVENTOR(S): Kasch, Michael; Kupfer, Jorgen; Kreuzer, Franz-Heinrich

PATENT ASSIGNEE(S): Consortium fuer Elektrochemische Industrie G.m.b.H., Germany

SOURCE: Eur. Pat. Appl., 12 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1046692	A1	20001025	EP 2000-106099	20000330 <--
EP 1046692	B1	20020807		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
DE 19917067	A1	20001019	DE 1999-19917067	19990415 <--
DE 19922158	A1	20001116	DE 1999-19922158	19990512 <--
PRIORITY APPLN. INFO.:			DE 1999-19917067	A 19990415
			DE 1999-19922158	A 19990512

AB Mixts. of polymerizable liquid-crystalline substances with chiral phase and $\geq 90\%$ of the compds. having ≥ 2 polymerizable groups, so that the polymerizable group content in the mixts. is 3.2-15 mol/g are useful for manufacture of heat-resistant, liquid-crystalline pigments

for pearlescent coatings. A typical pigment was manufactured by photopolymerization of a mixture containing 23.93 g hydroquinone bis[4-(4-acryloyloxybutoxy)benzoate], 6.6 g 4-acryloyloxyphenyl 4-(4-acryloyloxybutoxy)benzoate, 2.81 g 2-[4-(4-acryloyloxybutoxy)benzoyl]-5-anisoylisosorbide, 10 mg Et3N, 0.09 g Ethanox 703, and 0.33 g Irgacure 819 as a 3-10- μ m-thick layer on PET film, removal of the layer, and grinding.

IT 260544-92-1P 303009-54-3P 303009-55-4P

RL: IMF (Industrial manufacture); MOA (Modifier or additive use); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses) (pigment; thermostable, liquid-crystalline polymeric pigments for pearlescent

coatings)

RN 260544-92-1 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4-[(1-oxo-2-propenyl)oxy]benzoate], polymer with 1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

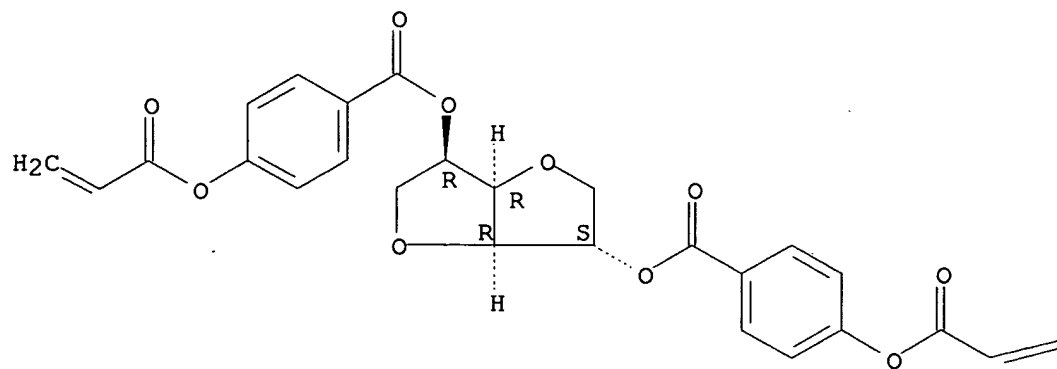
CM 1

CRN 256513-67-4

CMF C26 H22 O10

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

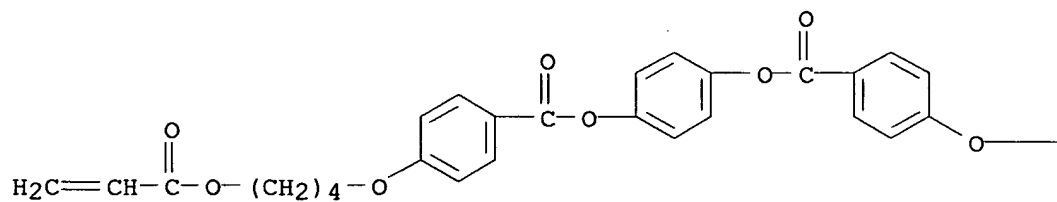


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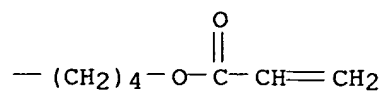
CRN 132694-65-6

CMF C34 H34 O10

PAGE 1-A



PAGE 1-B



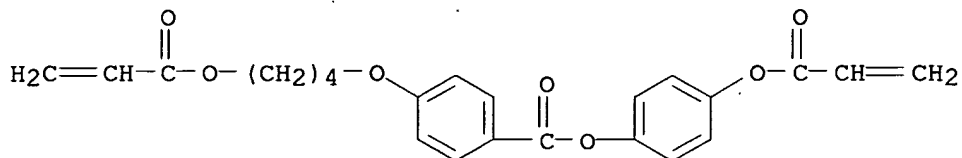
RN 303009-54-3 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-, 2-(4-methoxybenzoate) 5-[4-[(1-oxo-2-propenyl)oxy]benzoate], polymer with 4-[(1-oxo-2-propenyl)oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate and 1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

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CRN 302580-43-4

CMF C23 H22 O7

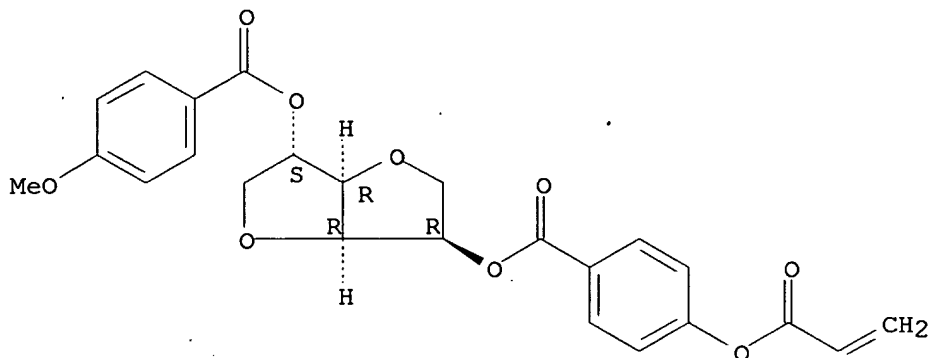


CM 2

CRN 228863-29-4

CMF C24 H22 O9

Absolute stereochemistry.

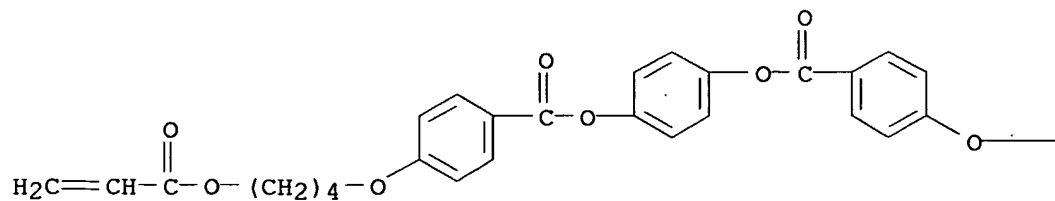


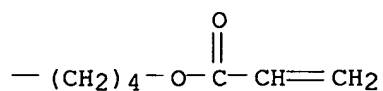
CM 3

CRN 132694-65-6

CMF C34 H34 O10

PAGE 1-A





RN 303009-55-4 CAPLUS

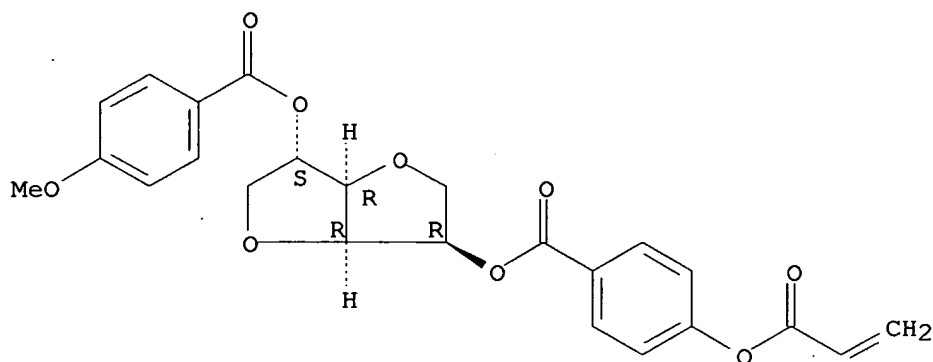
CN D-Glucitol, 1,4:3,6-dianhydro-, 2-(4-methoxybenzoate) 5-[4-[(1-oxo-2-propenyl)oxy]benzoate], polymer with 1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 228863-29-4

CMF C24 H22 O9

Absolute stereochemistry.

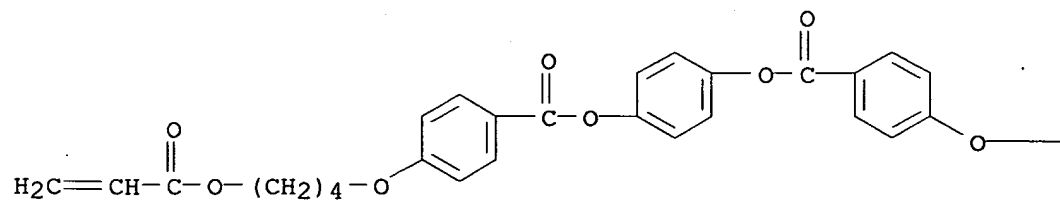


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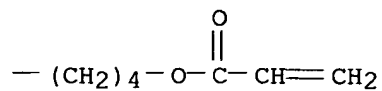
CRN 132694-65-6

CMF C34 H34 O10

PAGE 1-A



PAGE 1-B



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:738771 CAPLUS

DOCUMENT NUMBER: 133:310929

TITLE: Thermally stable pigments, films and effect coatings, as well as mixtures for their production

INVENTOR(S): Kasch, Michael; Kuepfer, Juergen; Kreuzer, Franz-Heinrich

PATENT ASSIGNEE(S): Consortium fuer Elektrochemische Industrie G.m.b.H., Germany

SOURCE: Ger. Offen.: 9 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19917067	A1	20001019	DE 1999-19917067	19990415 <--
EP 1046692	A1	20001025	EP 2000-106099	20000330 <--
EP 1046692	B1	20020807		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
US 6423246	B1	20020723	US 2000-546040	20000410
JP 2000336120	A	20001205	JP 2000-111180	20000412 <--
JP 3581634	B2	20041027		
CA 2305108	A1	20001015	CA 2000-2305108	20000413 <--
CA 2305108	C	20050208		
JP 2002121408	A	20020423	JP 2000-302710	20001002
PRIORITY APPLN. INFO.:			DE 1999-19917067	A 19990415
			DE 1999-19922158	A 19990512

AB A mixture of crosslinkable liquid-crystalline substances characterized by a chiral

phase (LC mixture), in which $\geq 90\%$ of the polymerizable groups are in mols. with ≥ 2 polymerizable groups (crosslinking mols.), contains 3.2-15 mmol polymerizable groups/g LC mixture Spreading the mixture on a surface and crosslinking in the liquid-crystalline state produces a coating film, which can be comminuted to

form pigment particles. Thus, a mixture of hydroquinone bis[4-(4-acryloyloxybutoxy)benzoate] 23.93, 4-(acryloyloxy)phenyl 4-(4-acryloyloxybutoxy)benzoate (preparation given) 6.6, and 2-[4-(4-acryloyloxybutoxy)benzoyl]-5-anisoylisosorbide (preparation given) 2.81 g containing 0.09 g Ethanox 703, 10 mg Et3N and 0.33 g Irgacure 819 was dissolved at 25% in toluene, filtered and evaporated to give a green liquid-crystalline mixture with viscosity (90°) 200 mPa-s and cholesteric-isotropic transition at 125°, containing 3.50 mmol polymerizable groups/g. The mixture was spread on a PET film at 3-10 μm thickness, photocured, the film was separated and ground to give pigment particle of average size .apprx.30 μm , which were incorporated in an acrylic-melamine automotive clear lacquer.

IT 302580-47-8P 302580-50-3P

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of thermally stable pigments from mixts. of liquid-crystalline substances)

RN 302580-47-8 CAPLUS

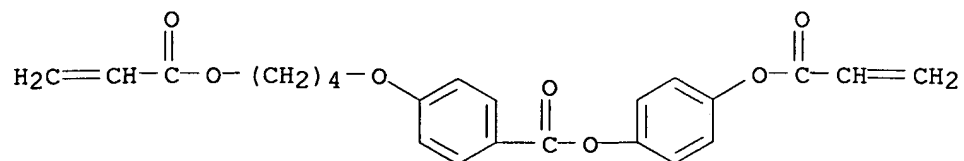
CN D-Glucitol, 1,4:3,6-dianhydro-, 5-(4-methoxybenzoate) 2-[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], polymer with 4-[(1-oxo-2-

propenyl)oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate and
 1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA
 INDEX NAME)

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CRN 302580-43-4

CMF C23 H22 O7



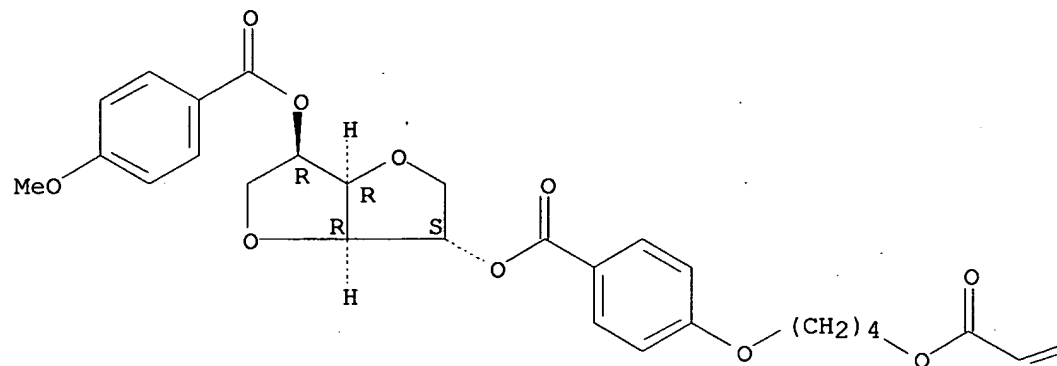
CM 2

CRN 287115-12-2

CMF C28 H30 O10

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B

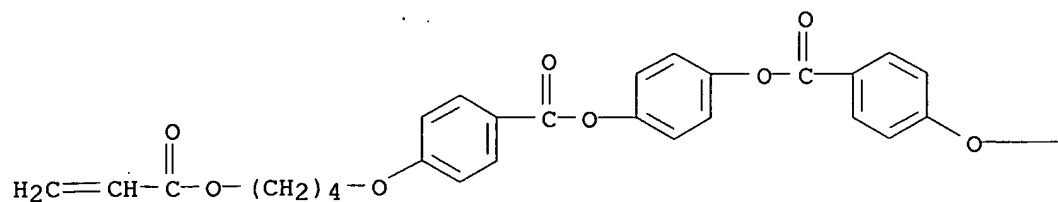
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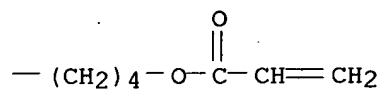
CRN 132694-65-6

CMF C34 H34 O10

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RN 302580-50-3 CAPLUS

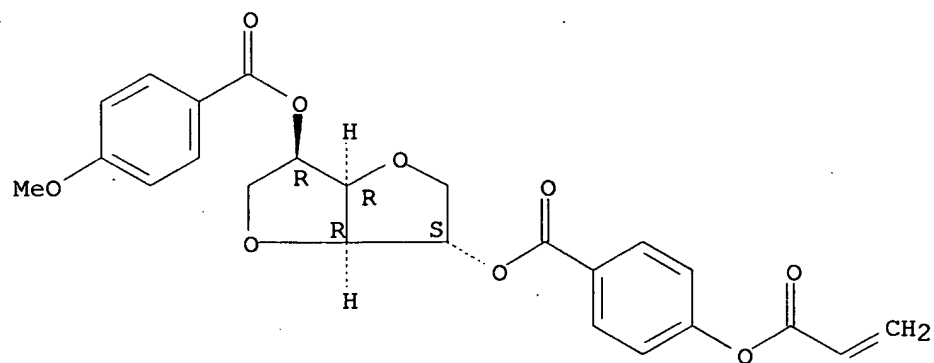
CN D-Glucitol, 1,4:3,6-dianhydro-, 5-(4-methoxybenzoate) 2-[4-[(1-oxo-2-propenyl)oxy]benzoate], polymer with 1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 228863-28-3

CMF C24 H22 O9

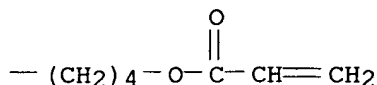
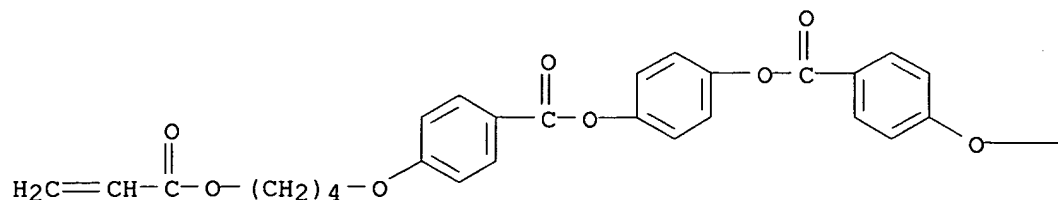
Absolute stereochemistry.



CM 2

CRN 132694-65-6

CMF C34 H34 O10



L11 ANSWER 4 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:733066 CAPLUS

DOCUMENT NUMBER: 133:297097

TITLE: Optically active polymerizable compounds,
liquid crystal compositions containing them, and
optically anisotropic polymersINVENTOR(S): Shibata, Toshihiro; Irisawa, Masatomi; Otsuka,
Takahiro

PATENT ASSIGNEE(S): Asahi Denka Kogyo K. K., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 7 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2000290315	A	20001017	JP 1999-101679	19990408 <--
PRIORITY APPLN. INFO.:			JP 1999-101679	19990408

OTHER SOURCE(S): MARPAT 133:297097

AB The compds. comprise XCHMeCH₂CHMeO(p-C₆H₄)mCO₂(p-C₆H₄)nZ₁[ABqZ₂]pRY (I; A, B = p-C₆H₄, 1,4-C₆H₁₀; m, n = 1-2; p, q = 0-1; ≥1 of X and Y = alkenyl-containing group, others = halo, Z₃R'; Y = H, halo, Z₄R''; Z₁ = single bond, O₂C; Z₂ = single bond, O; Z₃, Z₄ = O, O₂C; R = Cl-8 alkylene; R', R'' = Cl-8 alkenyl, Cl-8 alkyl). The polymers are useful for optical, display, and recording materials. Thus, 4-(1S, 3R)-3-hydroxy-1,3-dimethylpropyloxybenzoic acid acrylate was esterified with 4-(4-hydroxyphenyl)-1-propylcyclohexane to give I (A = 1,4-C₆H₁₀, m = n = p = 1, q = 0, X = CH₂:CHCO₂, Y = H, Z₁ = CO₂, Z₂ = single bond, R = C₃H₆). A composition comprising I 50, 4-acryloyloxyphenyl 4-(2-acryloyloxyethyl)benzoate 25, and 4-(4-acryloyloxyphenylcarbonyloxy)-6-acryloyloxyhexylcarbonyloxybenzene 25 parts was photopolymerized to give a liquid crystal polymer.

IT 300691-95-6P

RL: IMF (Industrial manufacture); PREP (Preparation)

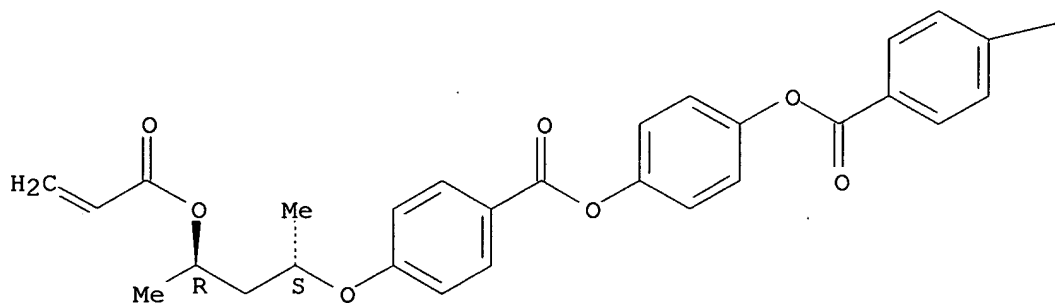
(manufacture of optically active compds. for liquid crystal compns., and anisotropic polymers)

RN 300691-95-6 CAPLUS

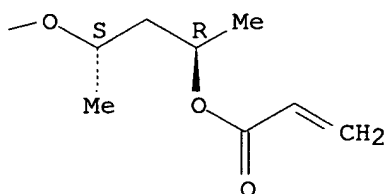
CN Benzoic acid, 4-[(1S,3R)-1-methyl-3-[(1-oxo-2-propenyl)oxy]butoxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



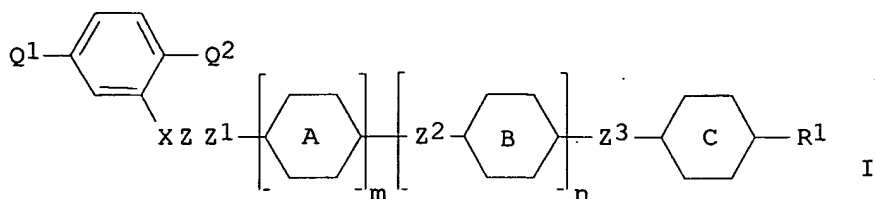
PAGE 1-B



L11 ANSWER 5 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2000:666686 CAPLUS
DOCUMENT NUMBER: 133:252854
TITLE: Liquid crystal monomers and their use
INVENTOR(S): Lukac, Teodor; Benecke, Carsten; Buchecker, Richard
PATENT ASSIGNEE(S): Rolic A.-G., Switz.
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000055110	A1	20000921	WO 2000-IB158	20000215 <--
W:				
AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW:				
GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1169293	A1	20020109	EP 2000-902824	20000215
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AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2002539182	T	20021119	JP 2000-605541	20000215
US 6733690	B1	20040511	US 2001-936725	20010917
PRIORITY APPLN. INFO.:			GB 1999-6168	A 19990317
			WO 2000-IB158	W 20000215

OTHER SOURCE(S): MARPAT 133:252854
GI



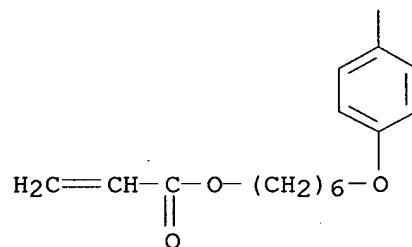
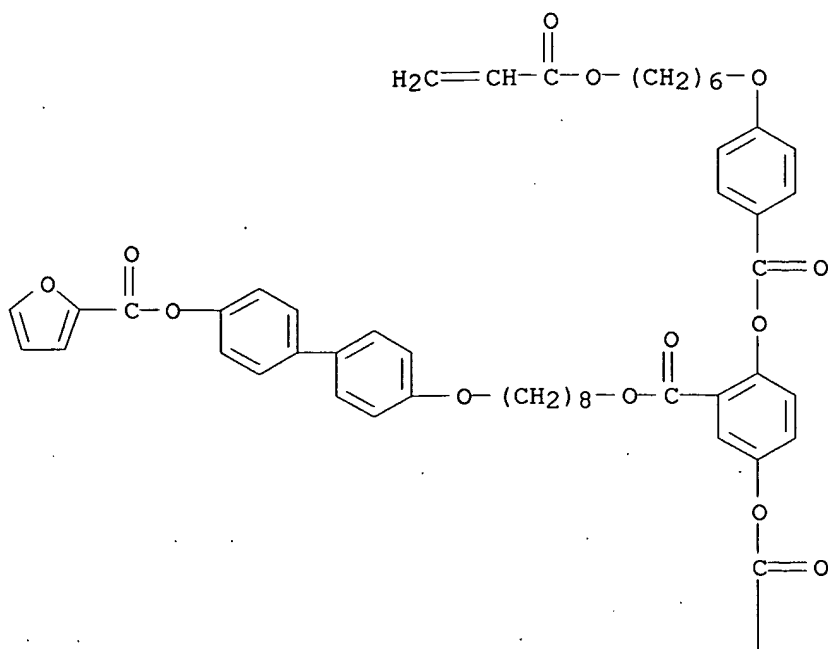
AB The monomers have the formula I [Q1, Q2 = polymerizable mesogenic residue; R1 = CN, COR, CO2R, O2CR, CONRR', NR'COR, OCO2R, O2CNRR', NR'CO2R, F, Cl, CF3, OCF3, R, OR; R = H, achiral C1-18 alkyl, achiral C4-18 x-alkenyl (x ≠ 1-2); R' = H, achiral C1-6 alk(en)yl; X = CH2, O, CO, CO2, O2C, CONR', OCO2, O2CNR'; Z = (CH2)p (p = 1-18) in which 1-2 nonadjacent CH2 groups are optionally replaced by CH:CH or 1-2 of O, CO, CO2, O2C, CONR', OCO2, O2CNR', provided that Z does not contain 2 adjacent hetero atoms; Z1 = direct link, O, CO, CO2, O2C, CONR', NR'CO, OCO2, O2CNR', NR'CO2; Z2, Z3 = direct link, CO2, O2C, CH2O, OCH2, CH2CH2, CH:CH, C.tplbond.C, (CH2)4, (CH2)30; rings A and B represent an optionally substituted 6-membered carbocyclic or heterocyclic group or naphthalenediyl; ring C is an optionally substituted 5- or 6-membered carbocyclic or heterocyclic group or naphthalenediyl; ≤1 of rings A-C is naphthalenediyl; m, n = 0, 1; m + n = 1-2]. Their polymers are used in the manufacture of (electro)optical devices. Thus, 4'-octylbiphenyl-4-ol was etherified with 8-chlorooctanol, and the product was esterified with 2,5-(HO)2C6H3CO2H; the resulting hydroquinone derivative was esterified with 2 mol 4-[6-(acryloyloxy)hexyloxy]benzoic acid to give a I with crystalline-nematic transition at 89.5° and nematic-isotropic transition at 103°.

IT 295783-12-9P 295783-13-0P
 RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (preparation and polymerization of liquid crystalline monomers)
 RN 295783-12-9 CAPLUS
 CN 2-Furancarboxylic acid, 4'-[[8-[[2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]benzoyl]oxy]octyl]oxy][1,1'-biphenyl]-4-yl ester, polymer with 1,4-butanediyl di-2-propenoate, 4-[trans-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]cyclohexyl]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate and pentyl 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]benzoate (9CI)
 (CA INDEX NAME)

CM 1

CRN 295783-01-6

CMF C64 H68 O16

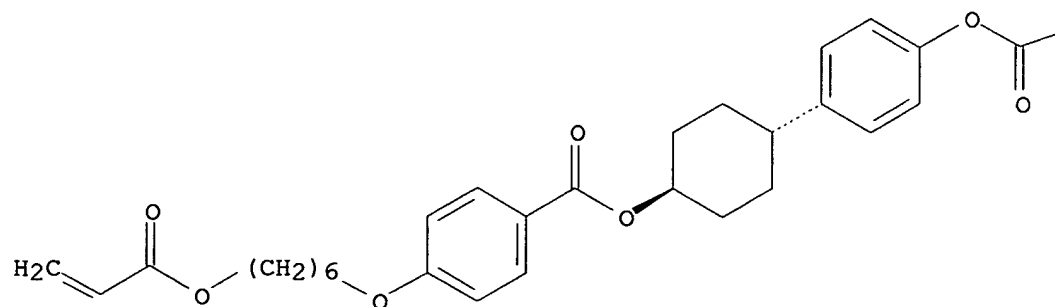


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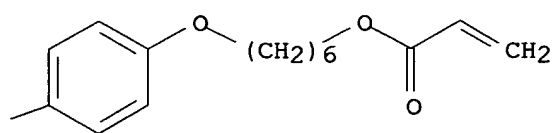
CRN 216879-99-1
CMF C44 H52 O10

Relative stereochemistry.

PAGE 1-A



PAGE 1-B

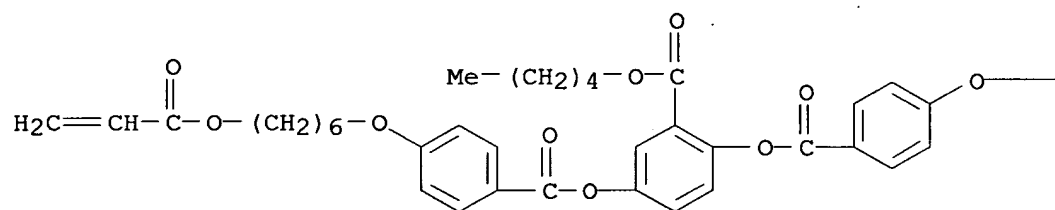


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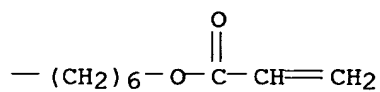
CRN 185993-72-0

CMF C44 H52 O12

PAGE 1-A



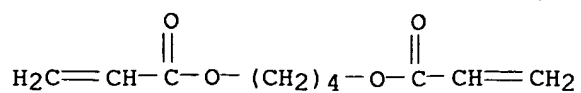
PAGE 1-B



CM 4

CRN 1070-70-8

CMF C10 H14 O4



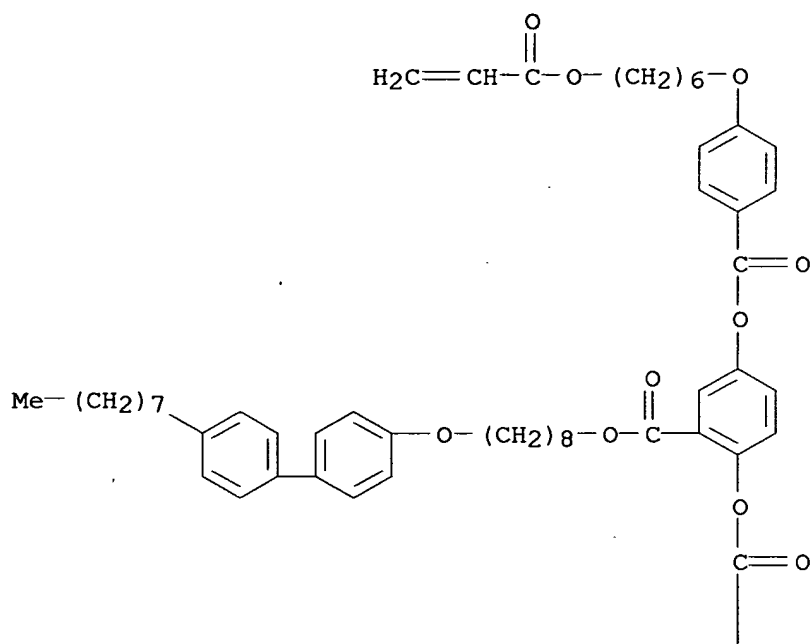
RN 295783-13-0 CAPLUS
 CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 8-[[4'-octyl[1,1'-biphenyl]-4-yl]oxy]octyl ester, polymer with
 1,4-butanediyl di-2-propenoate, 4-[trans-4-[[4-[[6-[(1-oxo-2-
 propenyl)oxy]hexyl]oxy]benzoyl]oxy]cyclohexyl]phenyl 4-[[6-[(1-oxo-2-
 propenyl)oxy]hexyl]oxy]benzoate and pentyl 2,5-bis[[4-[[6-[(1-oxo-2-
 propenyl)oxy]hexyl]oxy]benzoyl]oxy]benzoate (9CI) (CA INDEX NAME)

CM 1

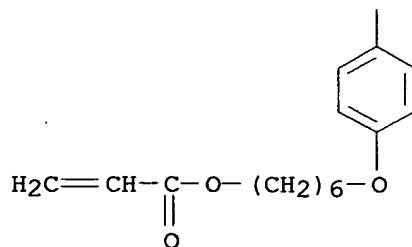
CRN 295782-97-7

CMF C67 H82 O13

PAGE 1-A



PAGE 2-A



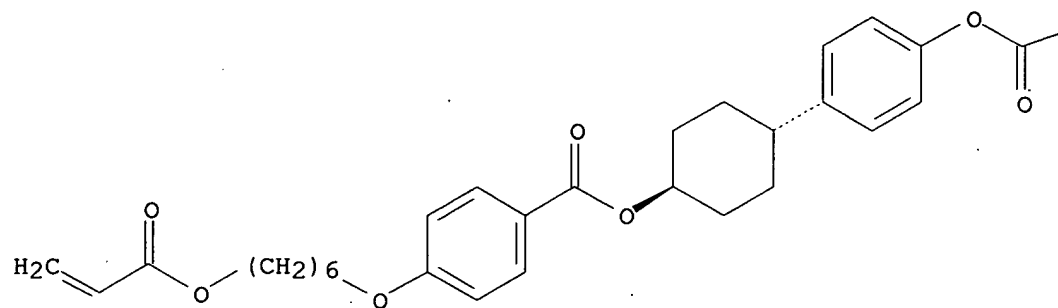
CM 2

CRN 216879-99-1

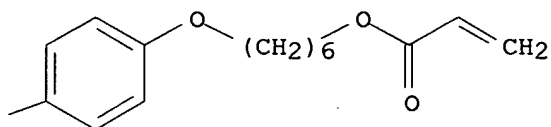
CMF C44 H52 O10

Relative stereochemistry.

PAGE 1-A



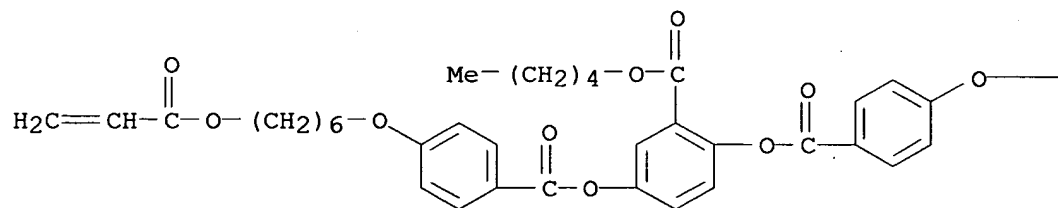
PAGE 1-B



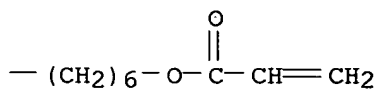
CM 3

CRN 185993-72-0
CMF C44 H52 O12

PAGE 1-A

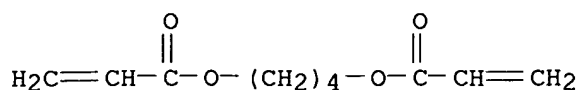


PAGE 1-B



CM 4

CRN 1070-70-8
CMF C10 H14 O4



IT 295782-95-5P 295782-97-7P 295783-01-6P

295783-02-7P 295783-03-8P 295783-04-9P

295783-05-0P 295783-06-1P 295783-08-3P

295783-09-4P 295783-10-7P 295783-11-8P

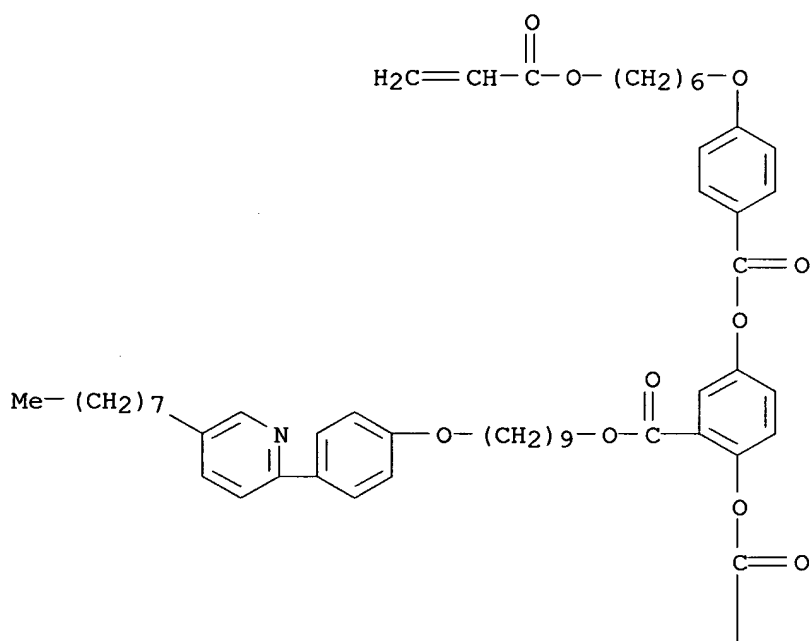
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of liquid crystalline monomers)

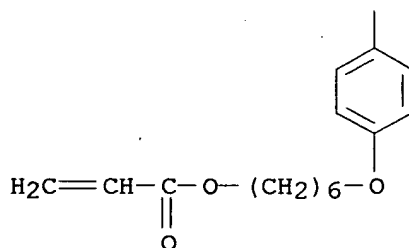
RN 295782-95-5 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 9-[4-(5-octyl-2-pyridinyl)phenoxy]nonyl ester (9CI) (CA INDEX NAME)

PAGE 1-A

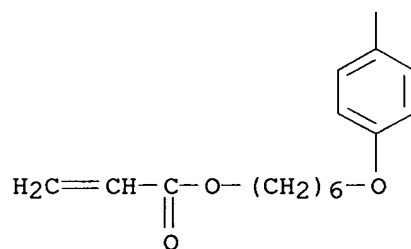
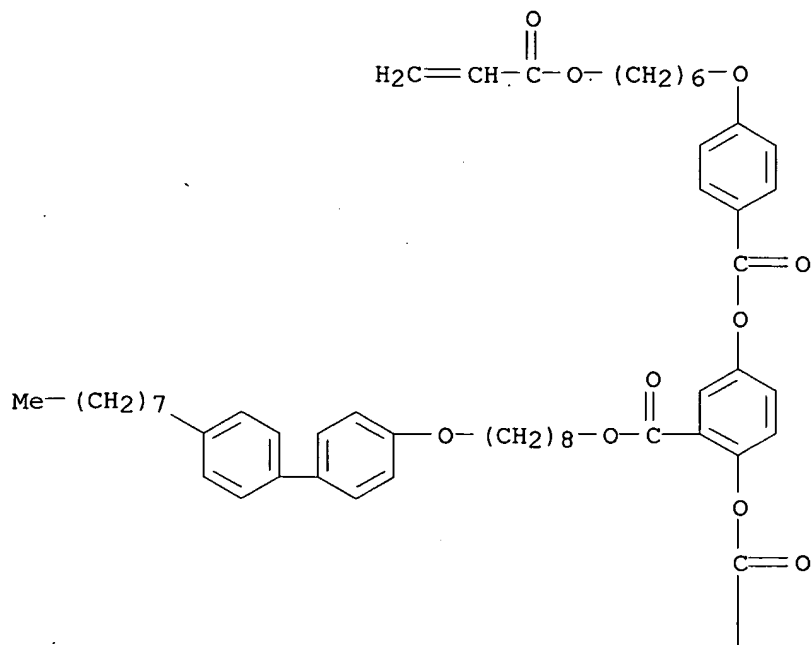


PAGE 2-A

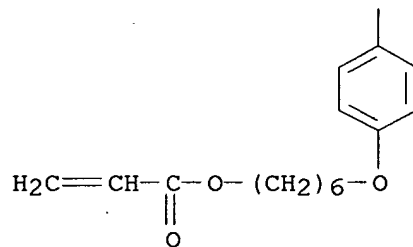
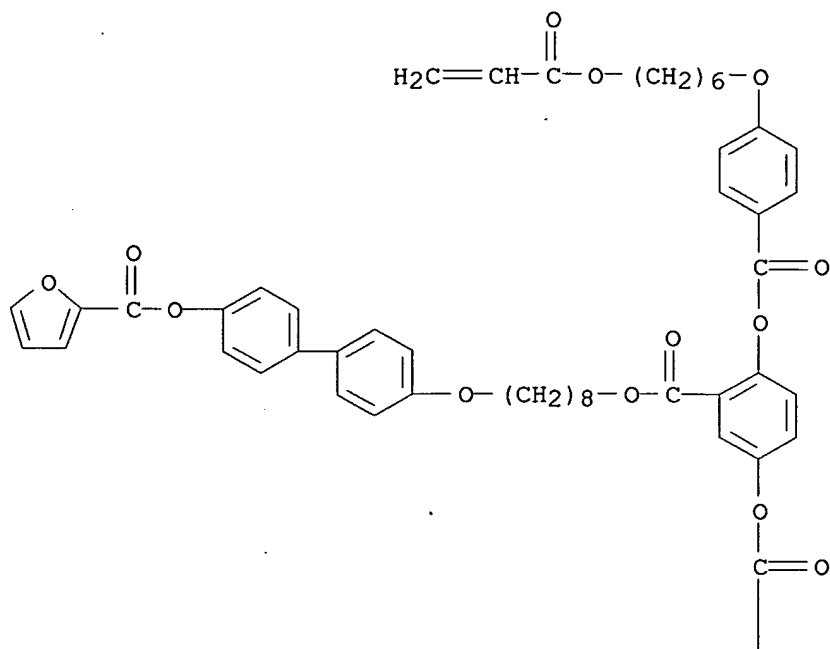


RN 295782-97-7 CAPLUS

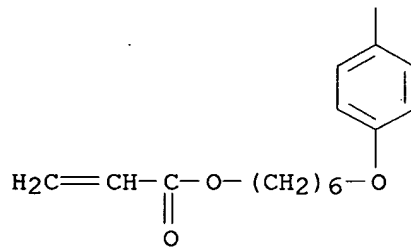
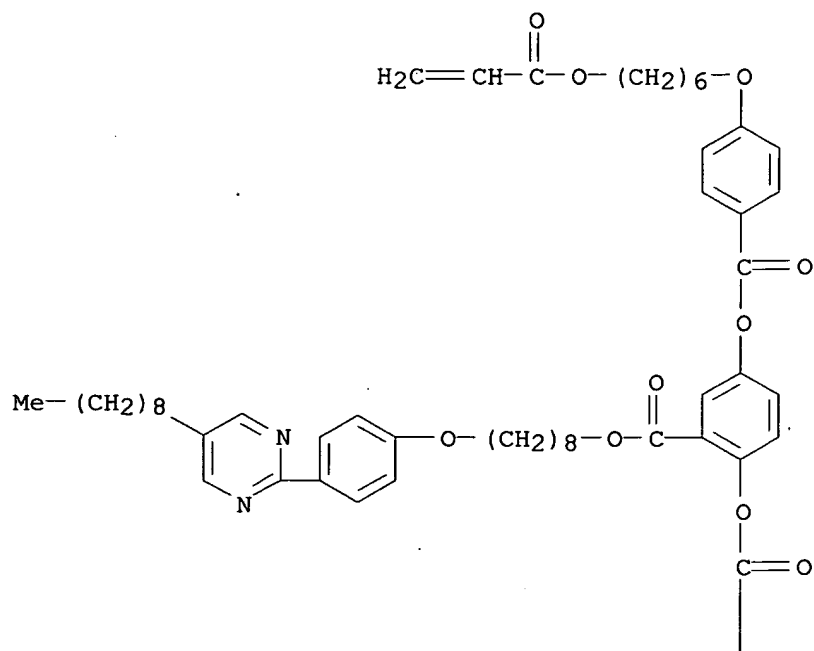
CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 8-[(4'-octyl[1,1'-biphenyl]-4-yl)oxy]octyl ester (9CI) (CA INDEX NAME)



RN 295783-01-6 CAPLUS
 CN 2-Furancarboxylic acid, 4'-[[8-[[2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]octyl]oxy][1,1'-biphenyl]-4-yl ester (9CI) (CA INDEX NAME)

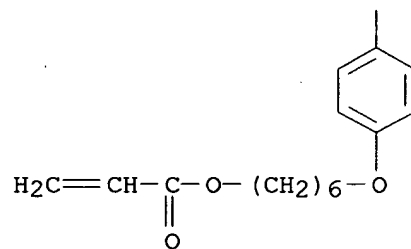
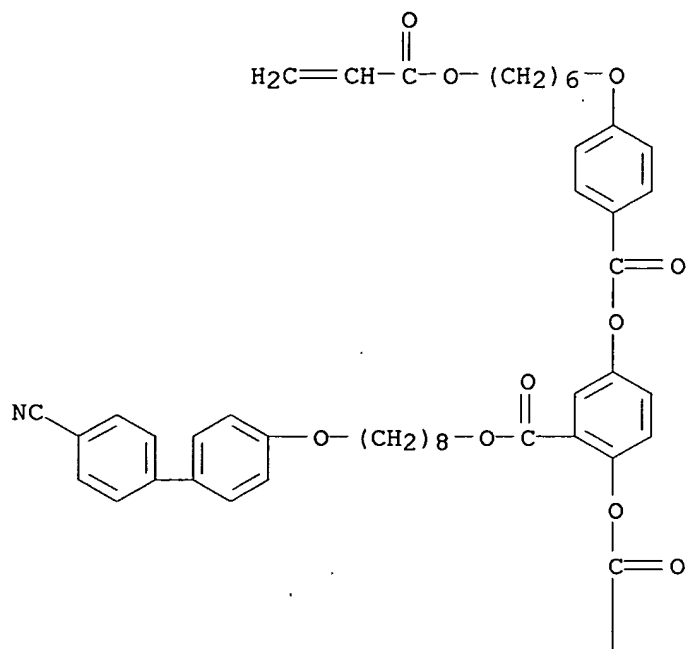


RN 295783-02-7 CAPLUS
 CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 8-[4-(5-nonyl-2-pyrimidinyl)phenoxy]octyl ester (9CI) (CA INDEX NAME)



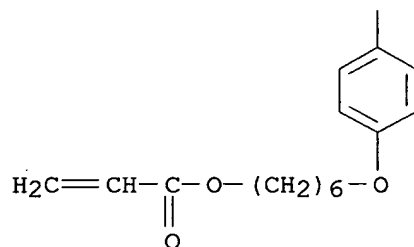
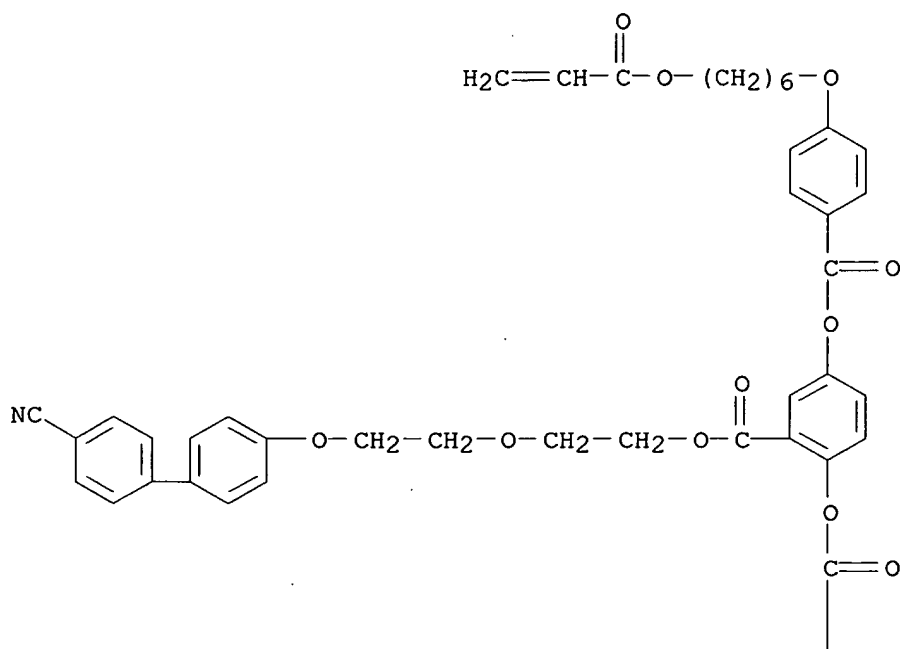
RN 295783-03-8 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
, 8-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]octyl ester (9CI) (CA INDEX NAME)



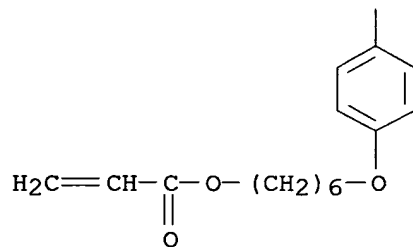
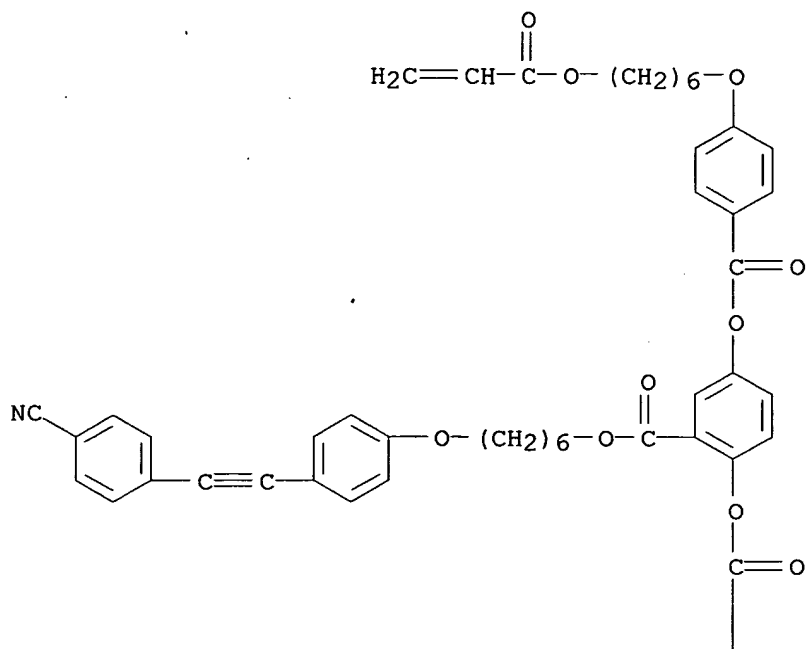
RN 295783-04-9 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 2-[2-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]ethoxy]ethyl ester (9CI) (CA
 INDEX NAME)



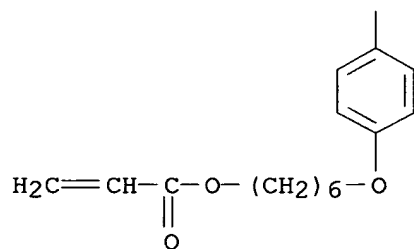
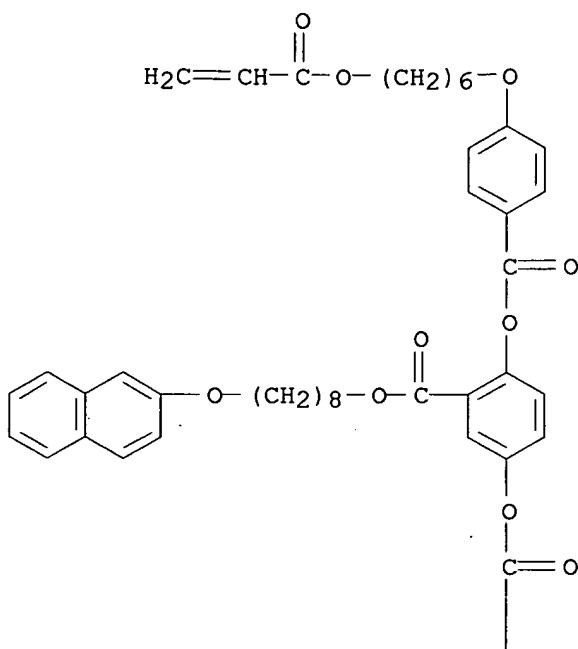
RN 295783-05-0 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 6-[4-[(4-cyanophenyl)ethynyl]phenoxy]hexyl ester (9CI) (CA INDEX NAME)



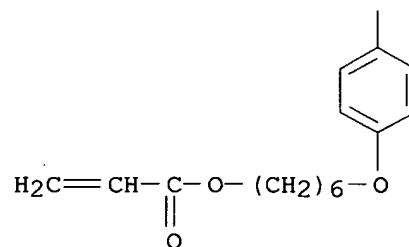
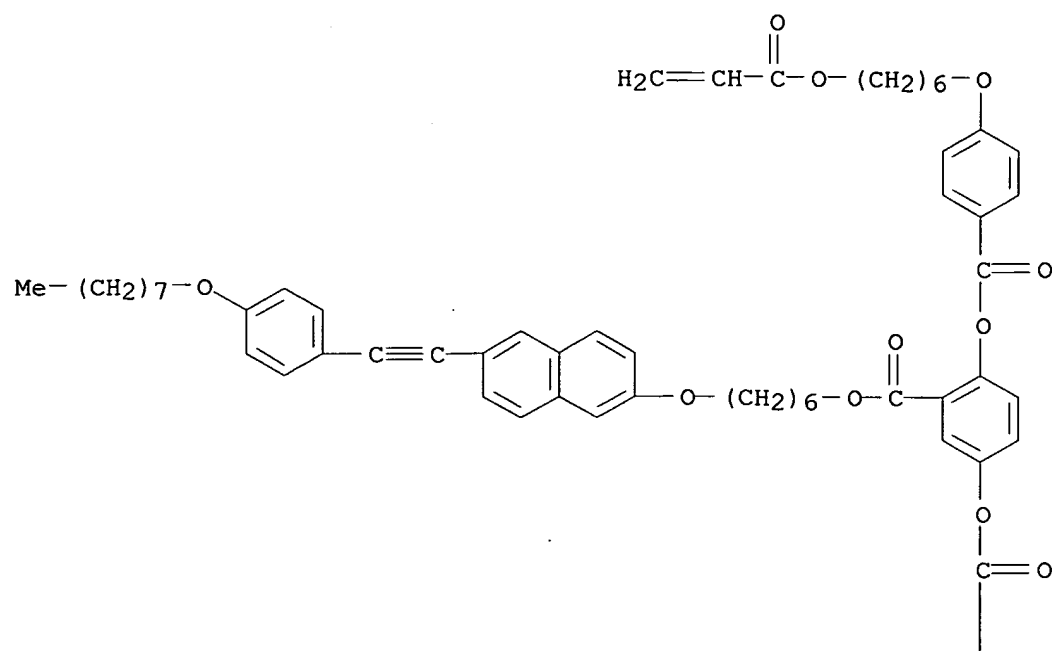
RN 295783-06-1 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
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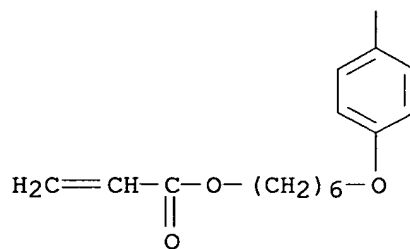
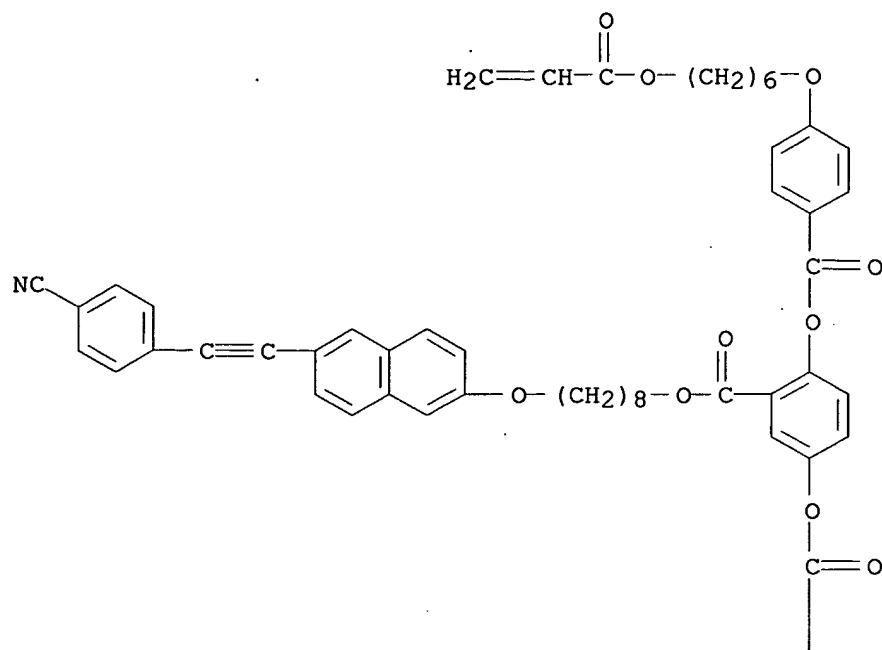
RN 295783-08-3 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
, 6-[[6-[[4-(octyloxy)phenyl]ethynyl]-2-naphthalenyl]oxy]hexyl ester (9CI)
(CA INDEX NAME)



RN 295783-09-4 CAPLUS

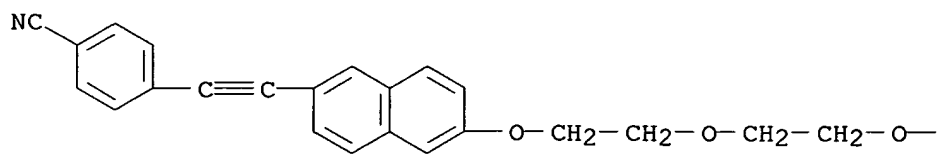
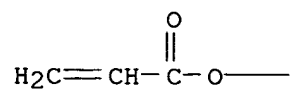
CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 8-[[6-[(4-cyanophenyl)ethynyl]-2-naphthalenyl]oxy]octyl ester (9CI) (CA INDEX NAME)



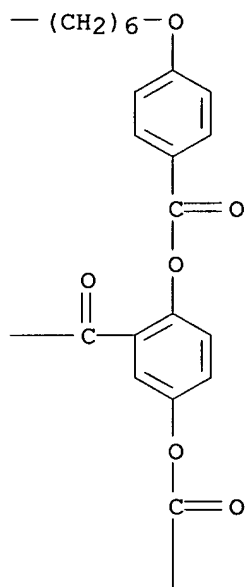
RN 295783-10-7 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 2-[2-[[6-[(4-cyanophenyl)ethynyl]-2-naphthalenyl]oxy]ethoxy]ethyl ester
 (9CI) (CA INDEX NAME)

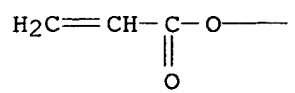
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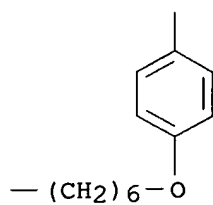


PAGE 1-B



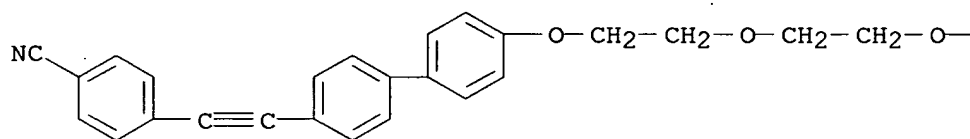
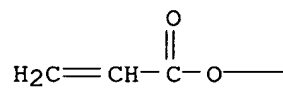
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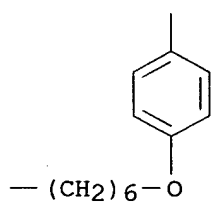
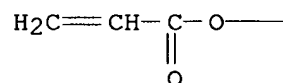
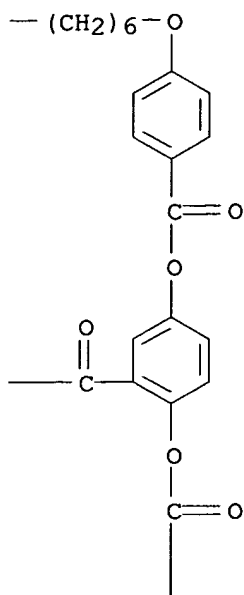




RN 295783-11-8 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 2-[2-[[4'-[(4-cyanophenyl)ethynyl][1,1'-biphenyl]-4-yl]oxy]ethoxy]ethyl
 ester (9CI) (CA INDEX NAME)





REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:184128 CAPLUS

DOCUMENT NUMBER: 132:322203

TITLE: Synthesis and properties of new mesogen
-jacketed liquid crystalline polymers

AUTHOR(S): Mi, Qi-Ding; Zhou, Qi-Feng

CORPORATE SOURCE: Department of Polymer Science & Engineering, College

of Chemistry, Peking University, Beijing, 100871,
Peop. Rep. China
SOURCE: Chinese Journal of Polymer Science (2000),
18(2), 139-148
CODEN: CJPSEG; ISSN: 0256-7679
PUBLISHER: Springer-Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Some new mesogen-jacketed liquid crystalline polymers with acrylic polymer backbones, spacers, and mesogenic units of different structures were synthesized by radical polymerization. The mesomorphic behavior of these polymers was examined using DSC and polarizing optical microscopy. Their liquid crystallinity is influenced by the variation of polymer backbone, spacer, and mesogenic unit and its terminal groups. The results show that (1) a more flexible polymer main-chain is more favorable to the formation of a liquid-crystalline phase, (2) a flexible spacer will decrease the "jacket effect" and the liquid crystallinity, and (3) a subtle modification of the terminal groups on the mesogenic unit may also have a significant influence on properties of the polymers.

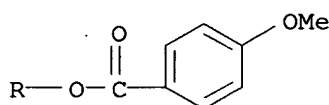
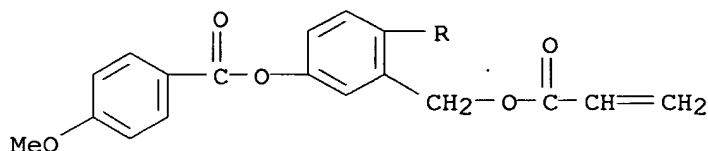
IT 105252-92-4P 126757-97-9P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(liquid-crystalline monomer; preparation and properties of mesogen-jacketed liquid crystalline polymers)

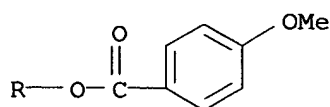
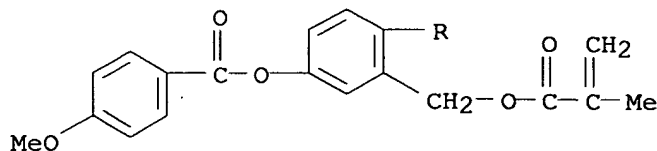
RN 105252-92-4 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-[[{(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)

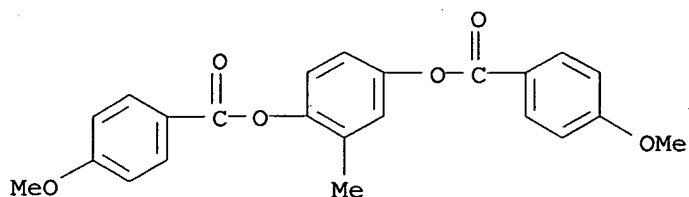


RN 126757-97-9 CAPLUS

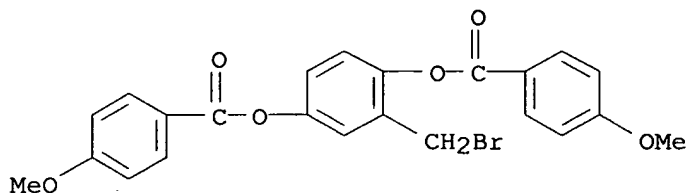
CN Benzoic acid, 4-methoxy-, 2-[[{(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)



IT 51933-65-4P 143903-26-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (monomer intermediate; preparation and properties of mesogen
 -jacketed liquid crystalline polymers)
 RN 51933-65-4 CAPLUS
 CN Benzoic acid, 4-methoxy-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX
 NAME)



RN 143903-26-8 CAPLUS
 CN Benzoic acid, 4-methoxy-, 2-(bromomethyl)-1,4-phenylene ester (9CI) (CA
 INDEX NAME)

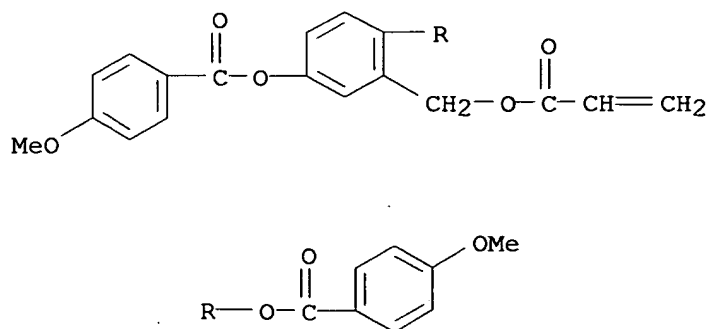


IT 105280-90-8P 126757-98-0P
 RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (preparation and properties of mesogen-jacketed liquid crystalline
 polymers)
 RN 105280-90-8 CAPLUS
 CN Benzoic acid, 4-methoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene
 ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 105252-92-4

CMF C26 H22 O8



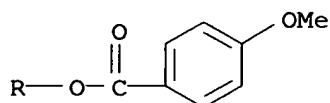
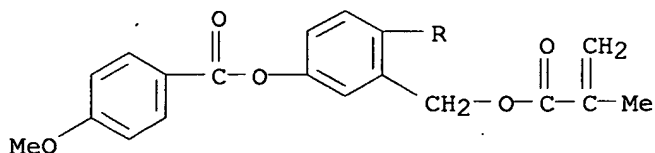
RN 126757-98-0 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-[[(2-methyl-1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 126757-97-9

CMF C27 H24 O8



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2000:84742 CAPLUS

DOCUMENT NUMBER: 132:123042

TITLE: Liquid crystalline compounds and crosslinkable mixtures thereof for optical devices

INVENTOR(S): Ohlemacher, Angela; Benecke, Carsten; Schmitt, Klaus

PATENT ASSIGNEE(S): Rolic Ag, Switz.

SOURCE: PCT Int. Appl., 61 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000005189	A1	20000203	WO 1999-IB1294	19990719 <--
W:	AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
AU 9946408	A1	20000214	AU 1999-46408	19990719 <--
EP 1100766	A1	20010523	EP 1999-929631	19990719
EP 1100766	B1	20040407		
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
JP 2002521354	T	20020716	JP 2000-561146	19990719
AT 263746	T	20040415	AT 1999-929631	19990719
US 6613245	B1	20030902	US 2001-744295	20010405
PRIORITY APPLN. INFO.:			CH 1998-1564	A 19980724
			WO 1999-IB1294	W 19990719

OTHER SOURCE(S): MARPAT 132:123042

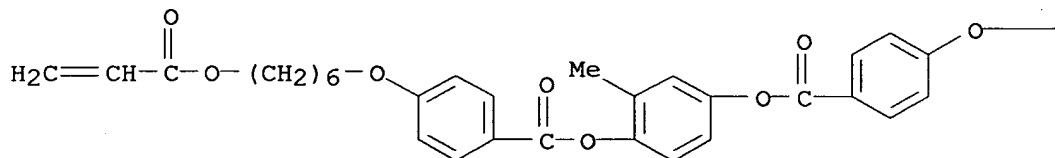
AB Title compds. R1S10[AZ1]kB[Z2C]l[Z3D]mC(:O)OS2R2, where A, C, and D are 1,5-naphthyl or (un)substituted p-C6H4; B is 1,5-naphthyl or (un)substituted biphenyl, such that one of the substituents in A, B, C, or D is not H and at least one of the phenylene rings can be replaced by a 1,4-phenylene ring in which one or two nonadjacent CH groups have been replaced by nitrogen; k, l, m = 0, 1, and k + l + m = 1 or 2; Z1, Z2, Z3 are independently a single bond, -CH2CH2-, -CH2O-, -OCH2-, -COO-, -OOC-, -CH=CH-COO-, -OOC-CH=CH-, -(CH2)4-, -O(CH2)3-, -(CH2)3O- or alkynyl; R1, R2 are crosslinkable groups, and S1, S2 are spacer units, such that R1S1 and R2S2 do not contain -OO- or -NO- groups are prepared having an optical anisotropy as great as possible with the absorption wavelength as short as possible, especially for use in optical components (no data). Thus, 7 mmol N-(3-dimethylaminopropyl)-N'-ethylcarbodiimide was added at 0° to a solution of 4'-hydroxybiphenyl-4-carboxylic acid 4-acryloylbutyl ester 7, 4-(6-acryloyloxyhexyloxy)-3-methoxybenzoic acid 7, and 4-dimethylaminopyridine 7 mmol in dichloromethane, stirred 1 h, left overnight at room temperature, washed, extracted, dried, filtered, concentrated, and purified, giving 2.58 g 4'-[4-(6-acryloyloxyhexyloxy)-3-methoxybenzoyloxy]biphenyl-4-carboxylic acid 4-acryloyloxybutyl ester having m.p. (C-Sx) 77°, (Sx-N) 60° Cl.p. (N-I) 62°.

IT 125248-71-7
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(liquid crystalline compds. and crosslinkable mixts. thereof for optical devices)

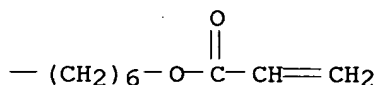
RN 125248-71-7 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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PAGE 1-B



REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 8 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:791850 CAPLUS

DOCUMENT NUMBER: 132:36996

TITLE: Method for producing effect coating based on liquid crystalline monomers

INVENTOR(S): Stohr, Andreas; Schoenfeld, Axel

PATENT ASSIGNEE(S): Clariant G.m.b.H., Germany

SOURCE: Ger. Offen., 10 pp.
 CODEN: GWXXBX
 DOCUMENT TYPE: Patent
 LANGUAGE: German
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19825924	A1	19991209	DE 1998-19825924	19980608 <--
EP 964035	A1	19991215	EP 1999-110248	19990527 <--
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
KR 2000005972	A	20000125	KR 1999-20909	19990607 <--
JP 2000080308	A	20000321	JP 1999-159649	19990607 <--
PRIORITY APPLN. INFO.:			DE 1998-19825924	A 19980608

AB Effect coatings are produced by spraying a substrate with powdered cholesteric liquid crystalline monomers selected from ZYAYMAX1 and/or (ZYAY)2MYX1 and/or (ZYAYMY)2X2 [A = (O-, S-, NH-, NMe-interrupted) C1-30 alkylene; M = mesogenic group; X1, X2 = chiral residue; Y = bond, O, S, CO2, etc.; Z = polymerizable group], or ≥ 1 powdered achiral liquid crystalline monomer ZYAYMYAYZ (A, M, Y, Z as above) and ≥ 1 chiral specified compound, heating the coated substrate to mesophase temperature and curing in cholesteric phase. For example, dissolving cholesteryl 3,4-di(2-acryloyloxyethoxy)benzoate and Additol XL 496 (a hydroxylated polyester) in CHCl3 in the absence of light, evaporating the solvent, vacuum-drying the residual mixture of monomers at room temperature and pulverizing in the presence of dry ice, spray-coating the powder on a metal sheet (precoated with a black primer) and heating the sheet at 80° gave a goniochromatic coating which changed its color from red to green with the angle of view.

IT 252269-31-1P
 RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (cholesteric film; method for producing effect coating by spray coating of powdered liquid crystalline monomers and curing on the substrate)

RN 252269-31-1 CAPLUS

CN Cholest-5-en-3-ol (3 β)-, 2-propenoate, polymer with byk 361 and 1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

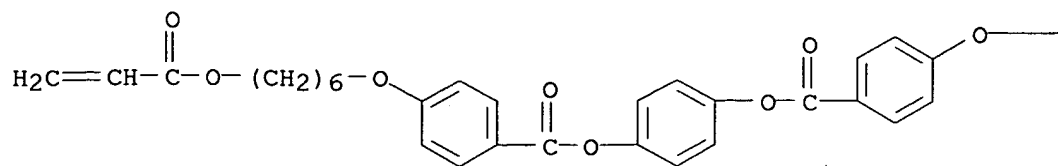
CRN 134633-08-2
 CMF Unspecified
 CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

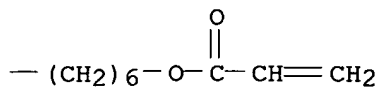
CM 2

CRN 123864-17-5
 CMF C38 H42 O10

PAGE 1-A



PAGE 1-B

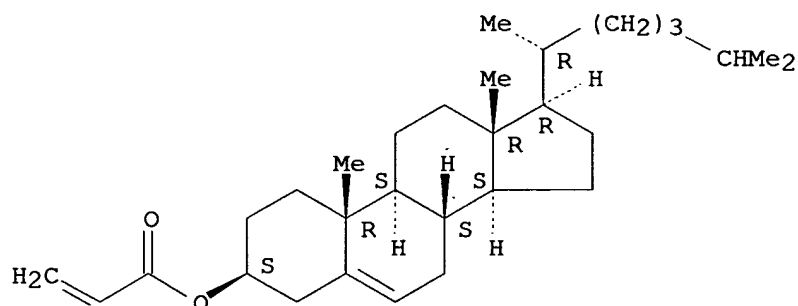


CM 3

CRN 26089-39-4

CMF C30 H48 O2

Absolute stereochemistry.



IT 123864-17-5

RL: RCT (Reactant); RACT (Reactant or reagent)

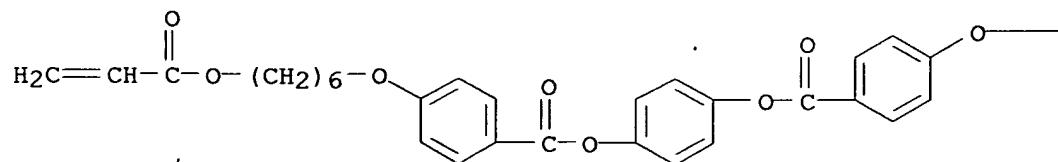
(polymerization; method for producing effect coating by spray coating of powdered

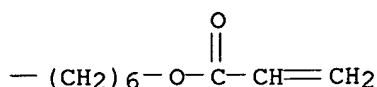
liquid crystalline monomers and curing on the substrate)

RN 123864-17-5 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A





L11 ANSWER 9 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:254119 CAPLUS

DOCUMENT NUMBER: 130:312217

TITLE: Polymerizable chiral compounds and their application

INVENTOR(S): Meyer, Frank; Ishida, Hiroki; Schuhmacher, Peter

PATENT ASSIGNEE(S): BASF A.-G., Germany

SOURCE: Ger. Offen., 12 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19843724	A1	19990415	DE 1998-19843724	19980924 <--
CH 692985	A5	20030115	CH 1998-1981	19980930
JP 11193287	A	19990721	JP 1998-284040	19981006 <--
GB 2330139	A	19990414	GB 1998-21817	19981007 <--
GB 2330139	B	20020612		

PRIORITY APPLN. INFO.: DE 1997-19744321 A1 19971008

OTHER SOURCE(S): MARPAT 130:312217

AB Chiral monomers useful in electrooptical devices and as dopants for liquid crystals have the structure [ZY(A)mMY]nX [A = spacer; M = mesogenic group containing 2 (un)substituted phenylene groups linked by O, CO, CO₂, O₂C, or OCO₂; X = chiral residue of THF or hexahydrofuro[3,2-b]furan; each Y = direct link, O, S, CO₂, O₂C, OCO₂, CONR, NRCO (R = H, C1-4 alkyl); Z = polymerizable group; m = 0, 1; n = 2-6]. Thus, 1,4:3,6-dianhydrosorbitol bis(4-hydroxybenzoate) was esterified with 4-(acryloyloxy)butyl 4-(chloroformyl)phenyl carbonate in DMF containing cyclohexyldimethylamine to give a dextrorotatory diacrylate monomer in 96% yield with helical twisting power 63 μm^{-1} in ZLI 1840. Addition of various amts. of this monomer to various nematic compds. and mixts. gave compns. which reflected light at a wavelength which depended on the amount added.

IT 223585-43-1 223585-50-0 223585-56-6

RL: TEM (Technical or engineered material use); USES (Uses)
(nematic compound mixts. containing polymerizable mesogenic chiral compds.)

RN 223585-43-1 CAPLUS

CN Benzoic acid, 4-[(butoxycarbonyl)oxy]-, 2-methyl-1,4-phenylene ester, mixt. with methyl-4-[[4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]benzoyl]oxy]phenyl 4-[(butoxycarbonyl)oxy]benzoate and 2-methyl-1,4-phenylene bis[4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]benzoate] (9CI) (CA INDEX NAME)

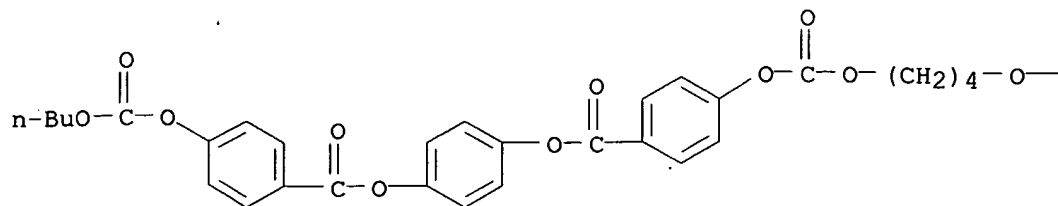
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CRN 223585-42-0

CMF C34 H34 O12

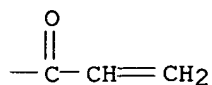
CCI IDS

PAGE 1-A



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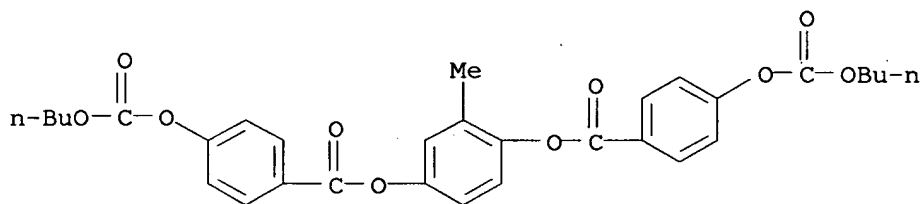
PAGE 1-B



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CRN 187586-33-0

CMF C31 H32 O10

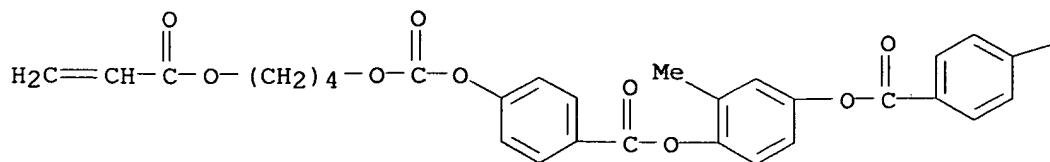


CM 3

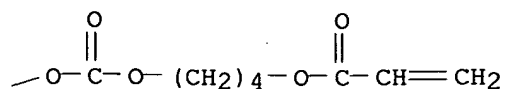
CRN 187585-64-4

CMF C37 H36 O14

PAGE 1-A



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RN 223585-50-0 CAPLUS
 CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-1,4-phenylene ester, mixt. with methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate and 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

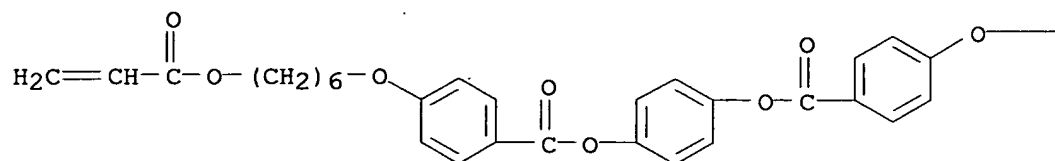
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CRN 223585-49-7

CMF C37 H40 O10

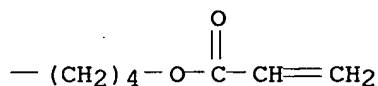
CCI IDS

PAGE 1-A



D1-Me

PAGE 1-B

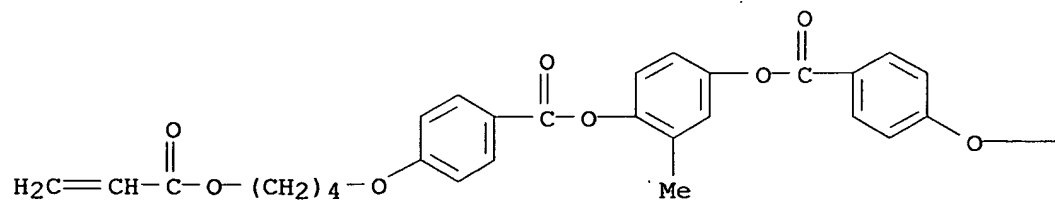


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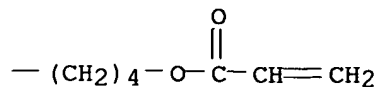
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CMF C35 H36 O10

PAGE 1-A



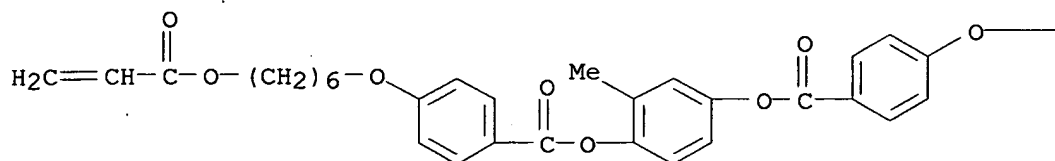
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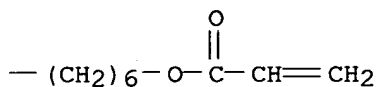
CM 3

CRN 125248-71-7
CMF C39 H44 O10

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PAGE 1-B

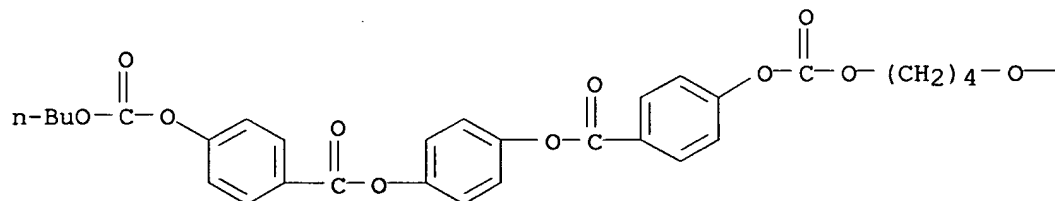


RN 223585-56-6 CAPLUS
CN Benzoic acid, 4-[(butoxycarbonyl)oxy]-, 2-methyl-1,4-phenylene ester, mixt. with methyl-4-[[4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]benzoyl]oxy]phenyl 4-[(butoxycarbonyl)oxy]benzoate, 2-methyl-1,4-phenylene bis[4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]benzoate] and 4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]phenyl 4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]benzoate (9CI) (CA INDEX NAME)

CM 1

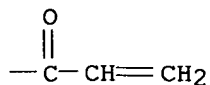
CRN 223585-42-0
CMF C34 H34 O12
CCI IDS

PAGE 1-A



D1-Me

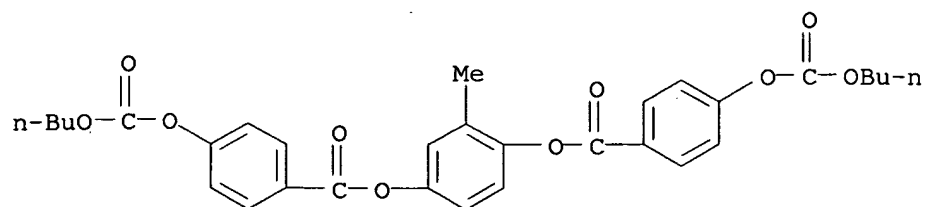
PAGE 1-B



CM 2

CRN 187586-33-0

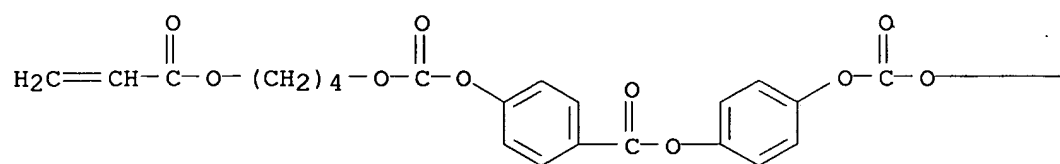
CMF C31 H32 O10



CM 3

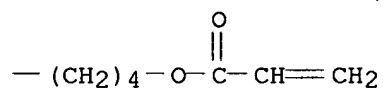
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CMF C29 H30 O12



PAGE 1-A

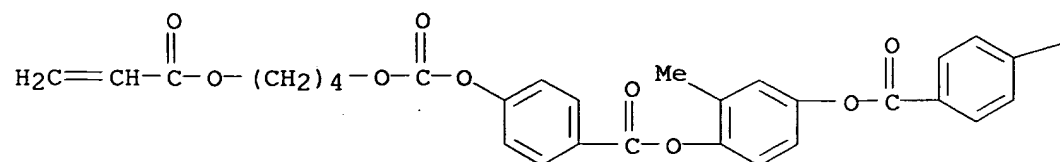
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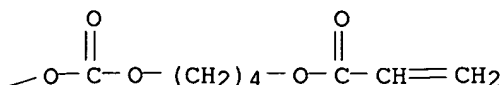
CM 4

CRN 187585-64-4

CMF C37 H36 O14



PAGE 1-A

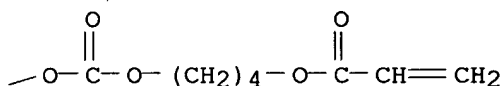
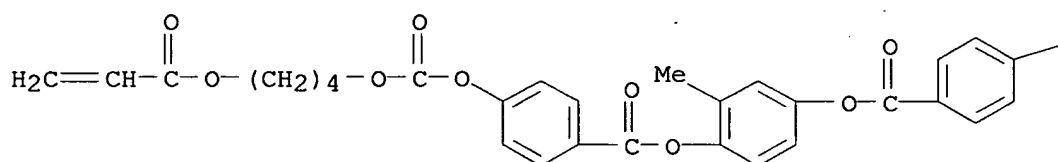


IT 187585-64-4

RL: TEM (Technical or engineered material use); USES (Uses)
(nematic compds. containing polymerizable mesogenic chiral
compds.)

RN 187585-64-4 CAPLUS

CN Benzoic acid, 4-[[[4-[(1-oxo-2-propenyl)oxy]butoxy]carbonyl]oxy]-,
2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)



L11 ANSWER 10 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1999:55473 CAPLUS

DOCUMENT NUMBER: 130:197051

TITLE: Synthesis of thermotropic biphenyl- and hydroquinone
bisbenzoate-type polyesters with thioether spacers
AUTHOR(S): Aragon, E.; Milano, J. C.; Robert, J. M.; Vernet,
J.-L.; Gallot, B.

CORPORATE SOURCE: Equipe d'accueil DRED 1356, Matériaux à Finalités
Spécifiques, Laboratoire de Chimie Appliquée. -
I.S.I.T.V., Université de Toulon et du Var, La Garde,
83957, Fr.

SOURCE: European Polymer Journal (1998), Volume Date
1999, 35(3), 385-393

CODEN: EUPJAG; ISSN: 0014-3057

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: French

AB Eight polyesters with a flexible thioether-type group were prepared through
a Michael reaction between aromatic diacrylates and alkylenedithiols. The
four polyesters having a 4,4'-biphenyldiyl mesogen group have
the mesophase SmBl, whereas the four others which have a much longer
mesogen group of a hydroquinone bisbenzoate type give rise to the
nematic mesophase at a higher temperature

IT 123349-64-4P 123349-65-5P 123349-66-6P
123349-67-7P 220765-82-2P 220765-88-8P
220765-92-4P 220765-96-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of thermotropic polyester-polythioethers by Michael
polymerization)

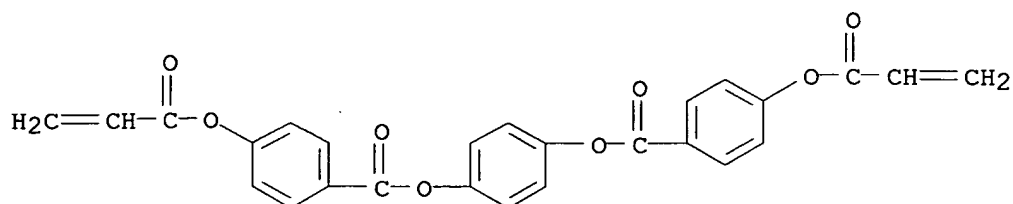
RN 123349-64-4 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer
with 1,3-propanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 109-80-8

CMF C3 H8 S2

HS-CH₂-CH₂-CH₂-SH

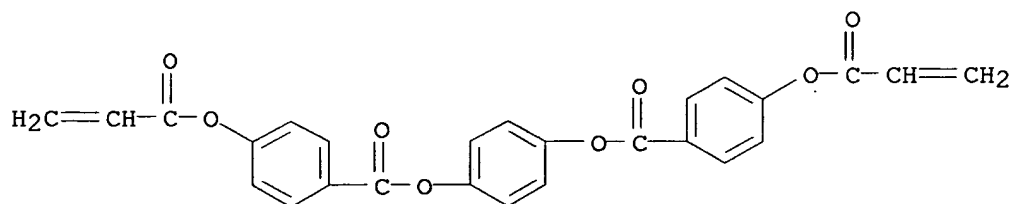
RN 123349-65-5 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer
with 1,4-butanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 1191-08-8

CMF C4 H10 S2

HS-(CH₂)₄-SH

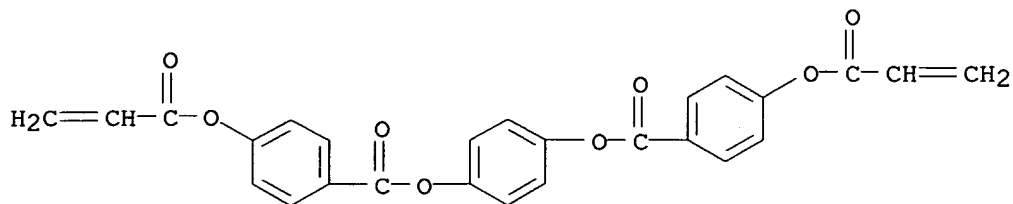
RN 123349-66-6 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,5-pentanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 928-98-3

CMF C5 H12 S2

HS- (CH₂)₅-SH

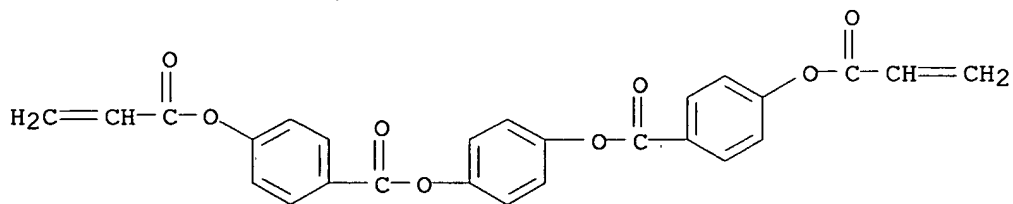
RN 123349-67-7 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,6-hexanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

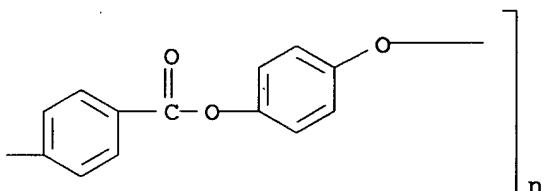
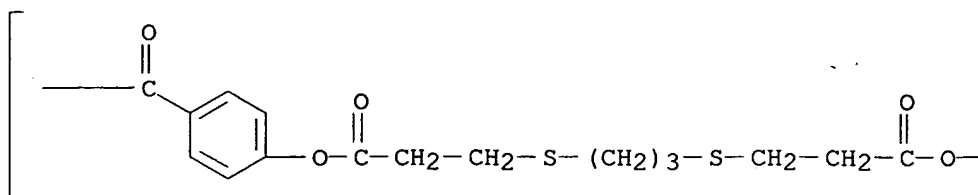
CRN 1191-43-1

CMF C6 H14 S2

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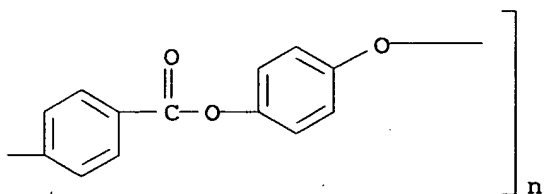
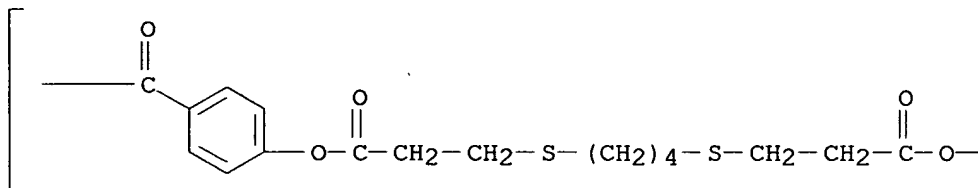
RN 220765-82-2 CAPLUS

CN Poly[oxy-1,4-phenyleneoxycarbonyl-1,4-phenyleneoxy(1-oxo-1,3-propanediyl)thio-1,3-propanediylthio(3-oxo-1,3-propanediyl)oxy-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)



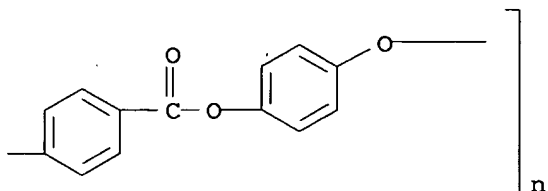
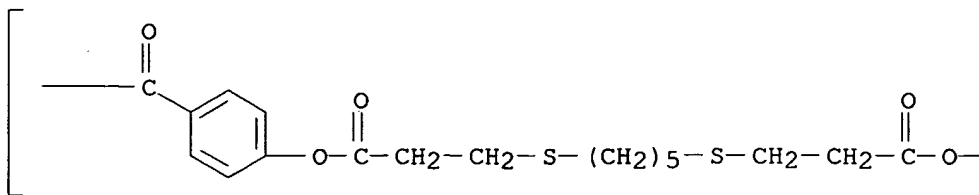
RN 220765-88-8 CAPLUS

Poly[oxy-1,4-phenyleneoxycarbonyl-1,4-phenyleneoxy(1-oxo-1,3-propanediyl)thio-1,4-butanediylthio(3-oxo-1,3-propanediyl)oxy-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)



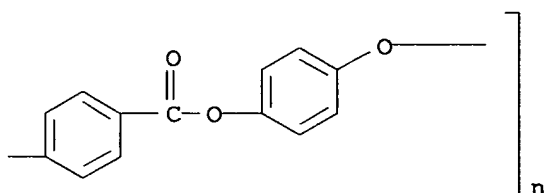
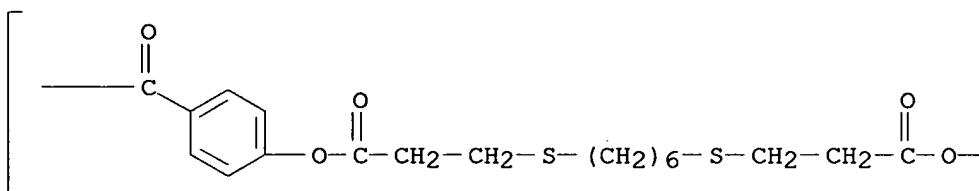
RN 220765-92-4 CAPLUS

CN Poly[oxy-1,4-phenyleneoxycarbonyl-1,4-phenyleneoxy(1-oxo-1,3-propanediyl)thio-1,5-pentanedithio(3-oxo-1,3-propanediyl)oxy-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)



RN 220765-96-8 CAPLUS

CN Poly[oxy-1,4-phenyleneoxycarbonyl-1,4-phenyleneoxy(1-oxo-1,3-propanediyl)thio-1,6-hexanedithio(3-oxo-1,3-propanediyl)oxy-1,4-phenylenecarbonyl] (9CI) (CA INDEX NAME)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 11 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1998:806570 CAPLUS

DOCUMENT NUMBER: 130:45611

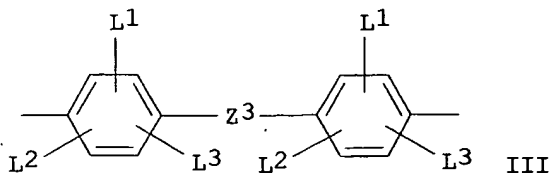
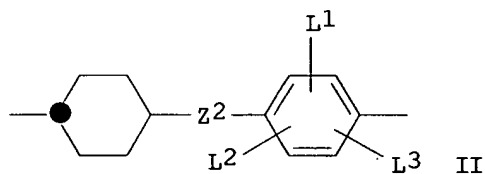
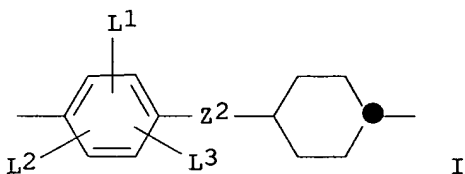
TITLE: New polymerizable liquid crystalline compounds

INVENTOR(S): Benecke, Carsten; Lukac, Teodor; Ohlemacher, Angela

PATENT ASSIGNEE(S): Rollic A.-G., Germany

SOURCE: PCT Int. Appl., 47 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9852905	A1	19981126	WO 1998-IB789	19980522 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9872276	A	19981211	AU 1998-72276	19980522 <--
EP 983225	A1	20000308	EP 1998-919404	19980522 <--
EP 983225	B1	20031217		
R: CH, DE, ES, FR, GB, IT, LI, NL, SE, FI				
JP 2001527570	T	20011225	JP 1998-550182	19980522
US 6395351	B1	20020528	US 1999-443214	19991119
HK 1026195	A1	20040423	HK 2000-104492	20000720
PRIORITY APPLN. INFO.:			EP 1997-108259	A 19970522
			WO 1998-IB789	W 19980522
OTHER SOURCE(S):			MARPAT 130:45611	
GI				



AB Comps. are claimed which are described by the general formula R-S1-A-Z1-B-S2-R (A and B are independent ring systems with the formulas I, II or III; in the trans-1,4-cyclohexylene ring, one or two nonadjacent CH2 groups may be replaced by oxygen; in the 1,4-phenylene ring, one or two nonadjacent CH groups may be replaced by nitrogen; L1, L2, L3 are independently selected from hydrogen, C1-20 alkyl, C1-20 alkenyl, C1-20 alkyloxy, C1-20 alkyloxy carbonyl, formyl, C1-20 alkyl carbonyl, C1-20

alkyl carbonyloxy, halogen, cyano, or nitro groups; Z1-3 are independently selected from a single bond, -CH₂CH₂-, -CH₂O-, -OCH₂-, -COO-, -OOC-, -(CH₂)₄-, -O(CH₂)₃-, -(CH₂)₃O- or -C=C-; S1, S2 represent a spacer unit; and R represents crosslinkable groups, with the proviso that at least one of the ring systems A or B represents a ring system with the formulas I or II, Z1 or Z2 denoting a single bond). Use of mixts. containing the crosslinkable liquid crystals in their crosslinked condition for optical components, and optical components using the mixts. are also described.

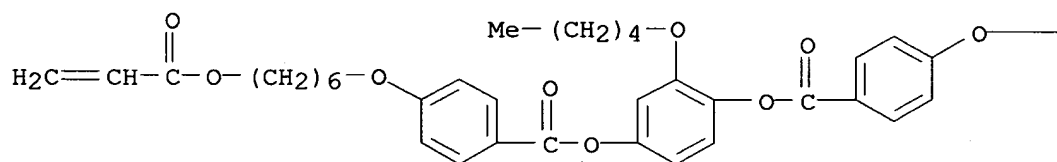
IT 216880-27-2P, 4-(6-Acryloyloxyhexyloxy)benzoic acid
 4-[4-(6-acryloyloxyhexyloxy)benzoyloxy]-2-chlorophenyl
 ester-4-(6-acryloyloxyhexyloxy)benzoic acid 4-[4-6-
 acryloyloxyhexyloxy)benzoyloxy]-2-methylphenyl ester-4-(6-
 acryloyloxyhexyloxy)benzoic acid, 4-[4-(6-
 acryloyloxyhexyloxy)benzoyloxy]-2-pentyloxybenzoylphenyl
 ester-4-(6-acryloyloxyhexyloxy)benzoic acid trans-4-[4-(6-
 acryloyloxyhexyloxy)benzoyloxy]cyclohexylphenyl ester copolymer
 RL: DEV (Device component use); SPN (Synthetic preparation); PREP
 (Preparation); USES (Uses)
 (polymerizable liquid crystal compds. and devices using them)

RN 216880-27-2 CAPLUS
 CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
 2-chloro-1,4-phenylene ester, polymer with 2-methyl-1,4-phenylene
 bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate], 4-[trans-4-[[4-[[6-
 [(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]cyclohexyl]phenyl
 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate and 2-(pentyloxy)-1,4-
 phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA
 INDEX NAME)

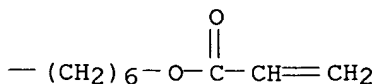
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CRN 216880-26-1
 CMF C43 H52 O11

PAGE 1-A



PAGE 1-B

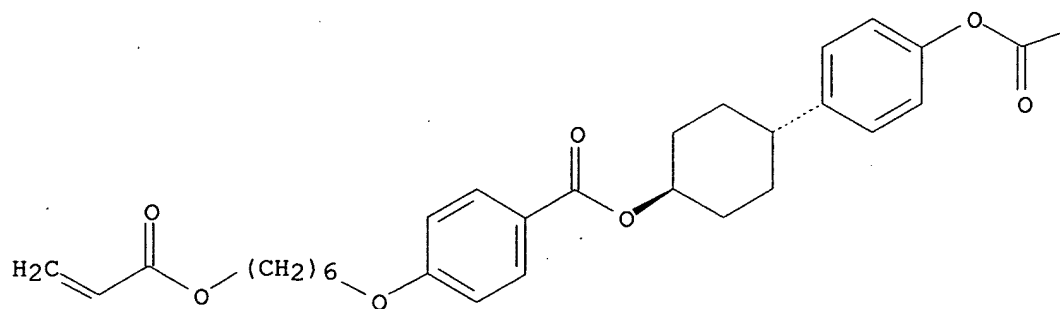


CM 2

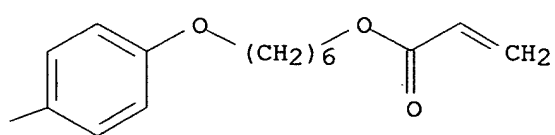
CRN 216879-99-1
 CMF C44 H52 O10

Relative stereochemistry.

PAGE 1-A



PAGE 1-B

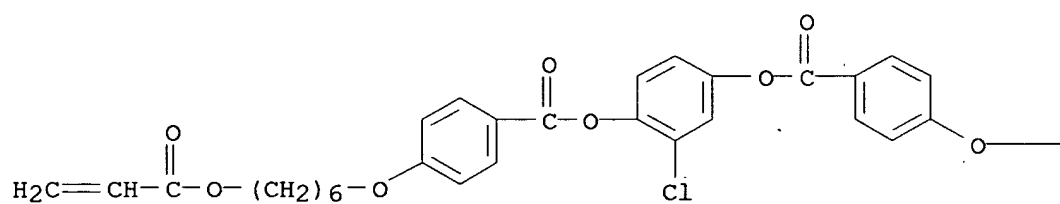


CM 3

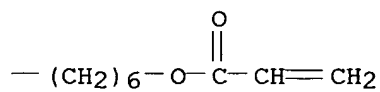
CRN 150809-90-8

CMF C38 H41 Cl O10

PAGE 1-A



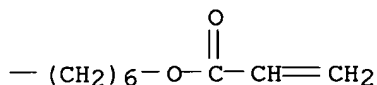
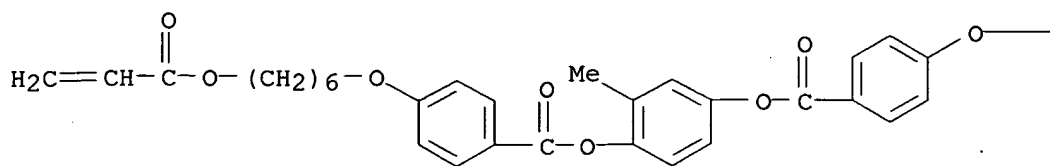
PAGE 1-B



CM 4

CRN 125248-71-7

CMF C39 H44 O10



REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 12 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1998:608948 CAPLUS
 DOCUMENT NUMBER: 129:203403
 TITLE: Thermochromic polymerizable mesogenic composition containing both chiral and achiral polymerizable mesogenic compounds and a photoinitiator, anisotropic polymers therefrom, and colored films
 INVENTOR(S): Jolliffe, Emma Jane; Coates, David
 PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany
 SOURCE: Brit. UK Pat. Appl., 60 pp.
 CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2315760	A	19980211	GB 1997-15766	19970725 <--
GB 2315760	B	20010110		
US 6117920	A	20000912	US 1999-350993	19990712 <--
US 6316066	B1	20011113	US 2000-522708	20000310
PRIORITY APPLN. INFO.:			EP 1996-112001	A 19960725
			US 1997-900533	B1 19970725
			US 1999-350993	A3 19990712

AB The title compns., optionally containing a dye, are useful for optical data storage, photomasks, decorative pigments, cosmetics, security applications, active/passive optical elements such as polarizers or retarders, color filters, scattering displays, or adhesives. Polymer films of different color are prepared by filling a liquid crystal mixture of CH₂:CHCO₂(CH₂)₆O-p-C₆H₄CO₂-p-C₆H₄-p-C₆H₉C₃H₇ 16.5, CH₂:CHCO₂(CH₂)₃O-p-C₆H₄-CO₂-p-C₆H₄-p-C₆H₉C₃H₇ 9.5, CH₂:CHCCO₂(CH₂)₆O-p-C₆H₄CO₂-p-C₆H₄CH₂CH(Me)Et 45.0, CH₂:CHCO₂(CH₂)₆-p-C₆H₄CO₂-p-C₆H₄-p-C₆H₄CCH₂CH(Me)Et 20.0, 1,4-[CH₂:CHCO₂(CH₂)₃O-p-C₆H₄CO₂]₂-3-MeC₆H₃ 10.0% between two glass plates and exposing to UV light.

IT 212260-13-4P 212260-14-5P

RL: IMF (Industrial manufacture); PRP (Properties); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
 (thermochromic polymerizable mesogenic composition containing both

chiral and achiral polymerizable mesogenic compds. for
anisotropic polymers used in preparing multi-color images)

RN 212260-13-4 CAPLUS

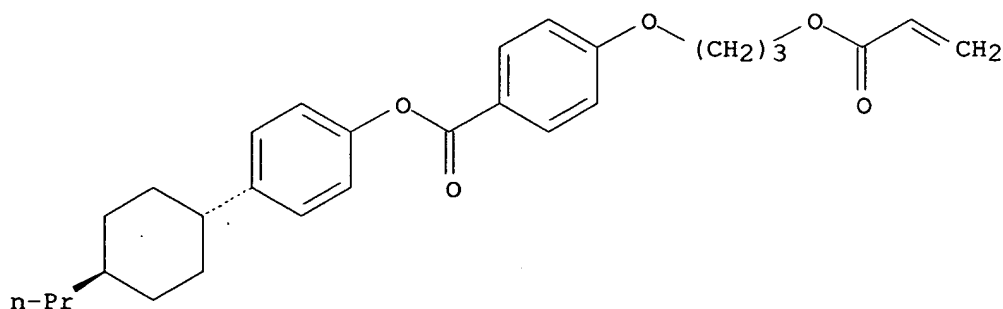
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
4'-(2-methylbutyl)[1,1'-biphenyl]-4-yl ester, polymer with
4-(2-methylbutyl)phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate,
2-methyl-1,4-phenylene bis[4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate],
trans-4-(4-propylcyclohexyl)phenyl 4-[[6-[(1-oxo-2-
propenyl)oxy]hexyl]oxy]benzoate and trans-4-(4-propylcyclohexyl)phenyl
4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 196881-71-7

CMF C28 H34 O5

Relative stereochemistry.

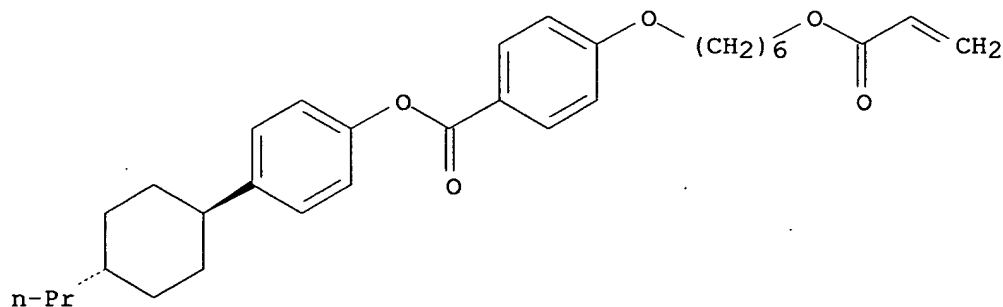


CM 2

CRN 182311-45-1

CMF C31 H40 O5

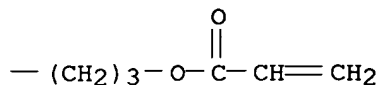
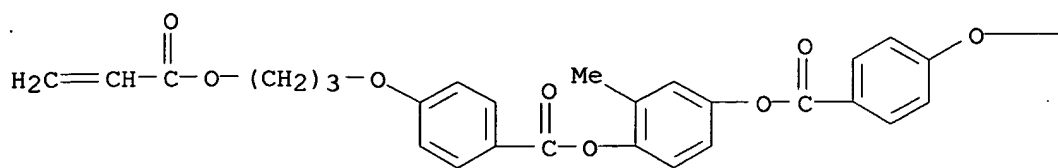
Relative stereochemistry.



CM 3

CRN 174063-87-7

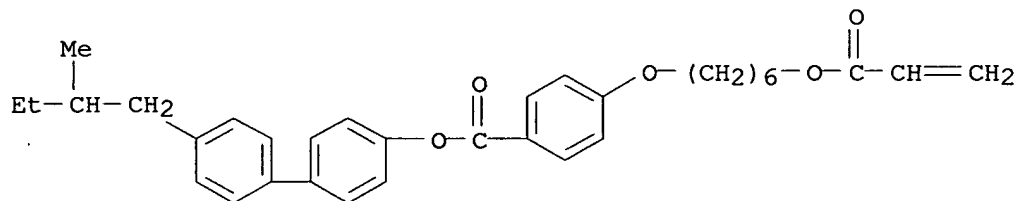
CMF C33 H32 O10



CM 4

CRN 168904-02-7

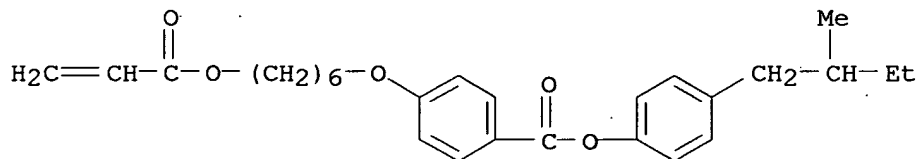
CMF C33 H38 O5



CM 5

CRN 168903-96-6

CMF C27 H34 O5



RN 212260-14-5 CAPLUS

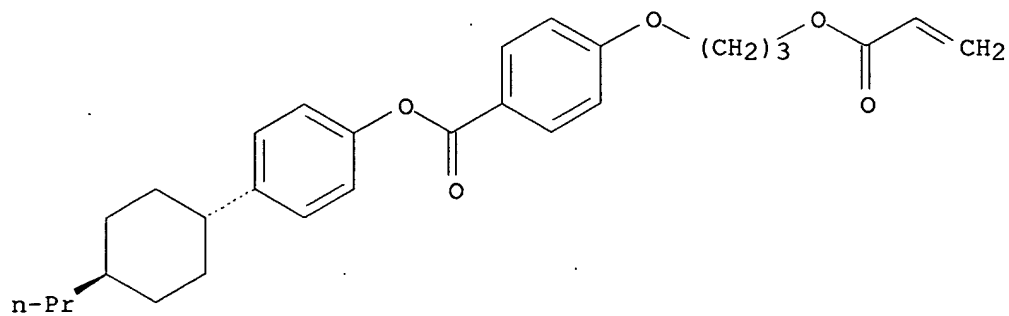
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 4'-(2-methylbutyl)[1,1'-biphenyl]-4-yl ester, polymer with 4-(2-methylbutyl)phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate, 1,4-phenylene bis[4-[[11-[(1-oxo-2-propenyl)oxy]undecyl]oxy]benzoate], trans-4-(4-propylcyclohexyl)phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate and trans-4-(4-propylcyclohexyl)phenyl 4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 196881-71-7

CMF C28 H34 O5

Relative stereochemistry.

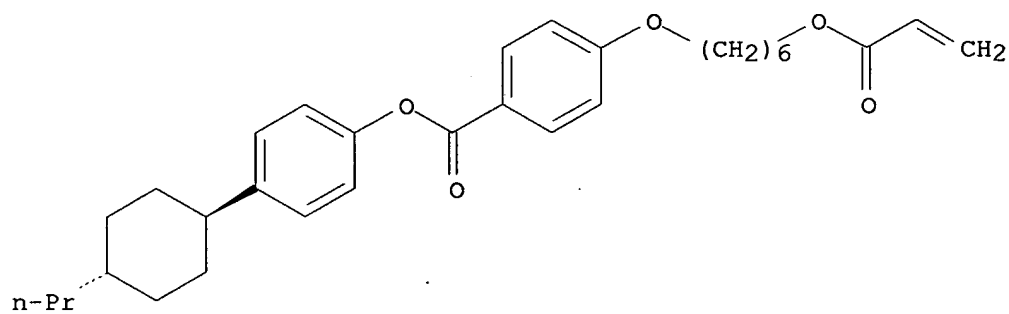


CM 2

CRN 182311-45-1

CMF C31 H40 O5

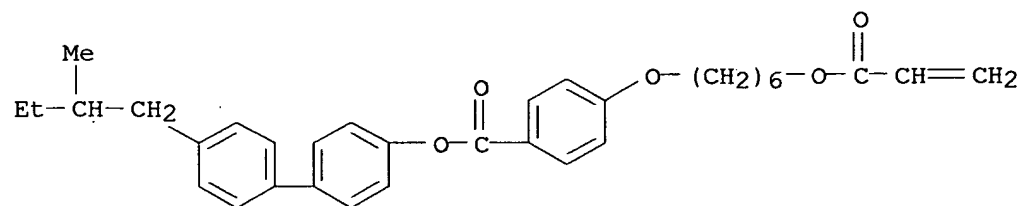
Relative stereochemistry.



CM 3

CRN 168904-02-7

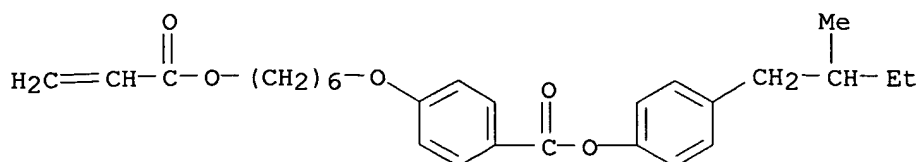
CMF C33 H38 O5



CM 4

CRN 168903-96-6

CMF C27 H34 O5

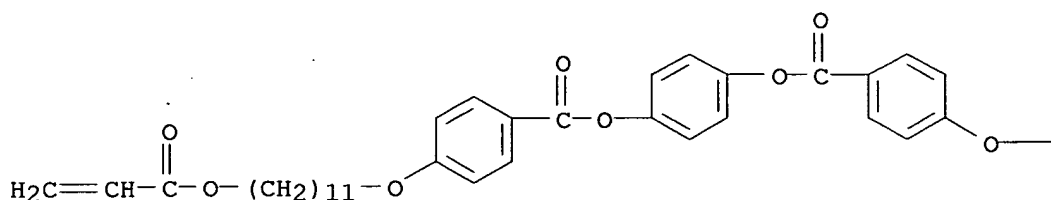


CM 5

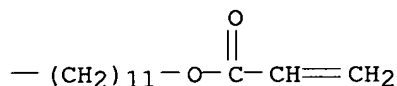
CRN 132900-74-4

CMF C48 H62 O10

PAGE 1-A



PAGE 1-B



L11 ANSWER 13 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:719750 CAPLUS

DOCUMENT NUMBER: 128:13876

TITLE: Method for manufacture of polymer-based optically anisotropic articles

INVENTOR(S): Uchiyama, Akihiko; Yatabe, Toshiaki

PATENT ASSIGNEE(S): Teijin Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 16 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09281480	A	19971031	JP 1996-92501	19960415 <--
PRIORITY APPLN. INFO.:			JP 1996-92501	19960415

AB The title articles such as compensation films for LCD devices are manufactured by coating a photocurable resin on a support surface and curing with light where a pair of processing plates is used. The pair of processing plates comprises at least 1 flexible plate and at least 1 plate which is transparent to the light that will be used in curing of the polymer. The plates have rubbed surfaces, on 1 of which a photocurable resin is coated, covered with another plate at a clearance determined by a spacer under the pressure of a rotating press roll, and irradiated with energy

light, e.g., UV light. A compensation film was prepared in this manner from a 50:50 mixture of 1-(p-acryloyloxyphenyl)-2-(p'-pentylphenyl)acetylene and 1-p-acryloyloxyphenyl-4-propylcyclohexane.

IT 123864-18-6

RL: DEV (Device component use); PRP (Properties); USES (Uses)
(method for manufacture of polymer-based optically anisotropic articles such as compensation films of LCD device)

RN 123864-18-6 CAPLUS

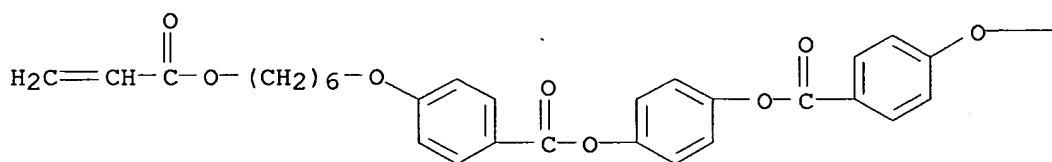
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

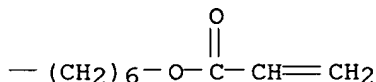
CRN 123864-17-5

CMF C38 H42 O10

PAGE 1-A



PAGE 1-B



L11 ANSWER 14 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:717513 CAPLUS

DOCUMENT NUMBER: 127:359657

TITLE: Manufacture of optically anisotropic plates

INVENTOR(S): Uchiyama, Akihiko; Yatabe, Toshiaki

PATENT ASSIGNEE(S): Teijin Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09281331	A	19971031	JP 1996-92502	19960415 <--
PRIORITY APPLN. INFO.:			JP 1996-92502	19960415

AB Title plates, useful for liquid crystal displays, are prepared by coating polymerizable liquid crystal compound-containing compns. on one of a pair of orientation-treated base plates (at least one of which is a flexible plate), covering the uncoated plate on the coated plate along with spacers set in between the plates, roll-pressing, and thermally curing the compns. A SE 1180-treated glass plate, a SE 1180-treated X 12-2450 (acrylic resin)/Panlite C 1400 laminated plate, an alc. dispersion of Micropearl SP

204 (as spacers), and a peroxide-containing 1,4-phenylenebis[4-(6-acryloyloxy)hexyloxy]benzoate composition (curable at 130° for 15 min) were used to form a title plate showing 590-nm retardation 535 nm, 550-nm transparency 85%, and haze 0.6%.

IT 123864-18-6, Poly(1,4-phenylenebis[4-[6-acryloyloxy]hexyloxy]benzoate)

RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(manufacture of optically anisotropic plates from flexible base plates and thermosetting liquid crystal polymers)

RN 123864-18-6 CAPLUS

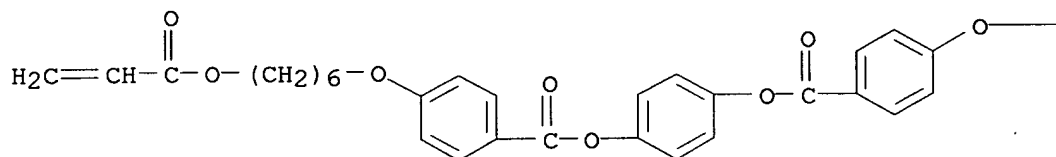
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

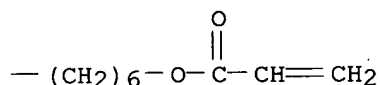
CRN 123864-17-5

CMF C38 H42 O10

PAGE 1-A



PAGE 1-B



L11 ANSWER 15 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:640635 CAPLUS

DOCUMENT NUMBER: 127:293779

TITLE: Reactive liquid crystal compounds

INVENTOR(S): Coates, David; Greenfield, Simon; Jolliffe, Emma; Hassall, Ian Victor; May, Alison

PATENT ASSIGNEE(S): Merck Patent G.m.b.H., Germany; Coates, David; Greenfield, Simon; Jolliffe, Emma; Hassall, Ian Victor; May, Alison

SOURCE: PCT Int. Appl., 33 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

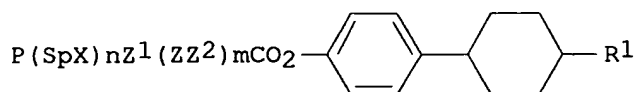
LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

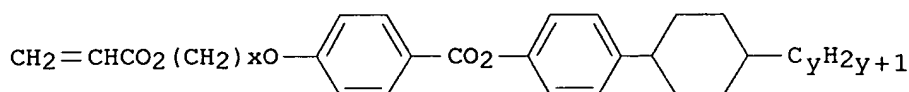
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9734862	A1	19970925	WO 1997-EP843	19970221 <--
W: JP, US				
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 888281	A1	19990107	EP 1997-906107	19970221 <--

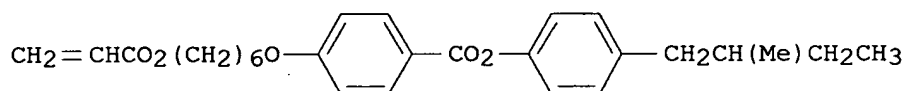
EP 888281 B1 20010502
R: DE, FR, GB, IT
JP 2000507932 T 20000627 JP 1997-533070 19970221 <--
US 6344154 B1 20020205 US 2000-563903 20000504
PRIORITY APPLN. INFO.: EP 1996-104330 A 19960319
US 1997-117787 B3 19970221
WO 1997-EP843 W 19970221
OTHER SOURCE(S): MARPAT 127:293779
GI



I



II



III

AB The invention relates to reactive liquid crystal compds. [I; P = CH₂:CRCO₂, RCH:CHO, oxiranyl, etc.; R = H, Me, Cl; Sp = C1-20-atom spacer; X = O, S, CO, CO₂, bond, etc.; R¹ = (un)substituted, (O-, S-, NH-, etc., -interrupted) C≤20 radical, halo, cyano, etc.; Z = OCO, CO₂, CH₂CH₂, CH:CH, etc.; Z¹, Z² = 1,4-C₆H₄, 1,4-cyclohexenylene, naphthalene-1,2-diyl, etc.; m, n = 0, 1], to compns. comprising I, to linear or crosslinked (co)polymers obtainable by (co)polymerizing I or I-containing compns. and to the use of I or I-containing compns. for the preparation of linear or crosslinked polymers or polymer films for decorative pigments, cosmetics or security applications, active and passive optical elements, color filters, scattering displays, adhesives or synthetic resins with anisotropic mech. properties. For example, a mixture of acryloyloxyhexyloxybenzoate ester II (x = 6, y = 3) 27, acryloyloxypropoxybenzoate ester II (x = 3, y = 3) 18, and compound III 55% which melts below room temperature exhibits mesophase behavior: smectic phase A 24.4°-cholesteric phase 67°-isotropic phase. The mixture was UV-cured at 35° between 2 glass slides to give a cholesteric copolymer with T_g 1.8° and a reflection wavelength of 549 nm.

IT 125248-71-7 174063-87-7
RL: PRP (Properties); TEM (Technical or engineered material use); USES'

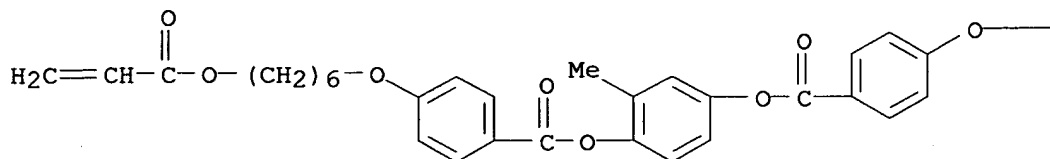
(Uses)

(alkylcyclohexylphenyl acryloyloxyalkoxybenzoate esters and related reactive liquid crystals, their mixts. and polymers)

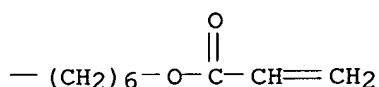
RN 125248-71-7 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



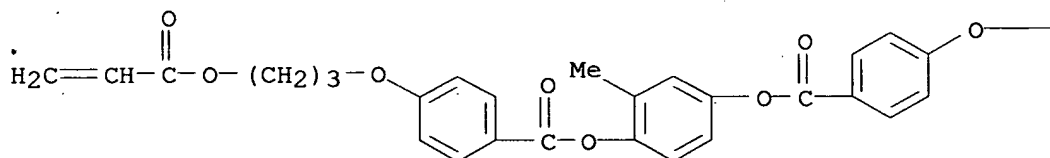
PAGE 1-B



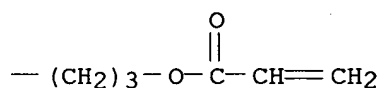
RN 174063-87-7 CAPLUS

CN Benzoic acid, 4-[3-[(1-oxo-2-propenyl)oxy]propoxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



IT 196881-79-5 196881-80-8

RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)

(film; alkylcyclohexylphenyl acryloyloxyalkoxybenzoate esters and related reactive liquid crystals, their mixts. and polymers)

RN 196881-79-5 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 4-(2-methylbutyl)phenyl ester, polymer with 2-methyl-1,4-phenylene bis[4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate], trans-4-(4-propylcyclohexyl)phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate and trans-4-(4-propylcyclohexyl)phenyl 4-[3-[(1-oxo-2-

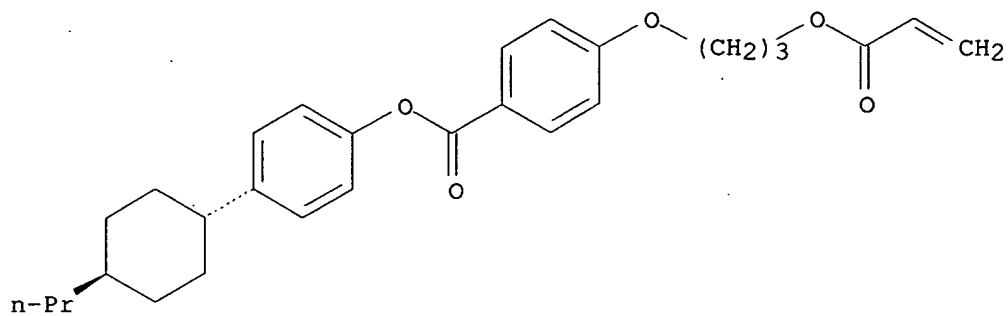
propenyl)oxy]propoxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 196881-71-7

CMF C28 H34 O5

Relative stereochemistry.

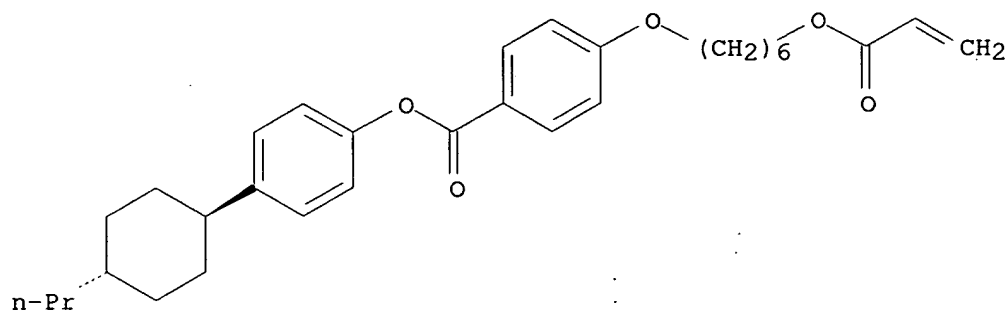


CM 2

CRN 182311-45-1

CMF C31 H40 O5

Relative stereochemistry.

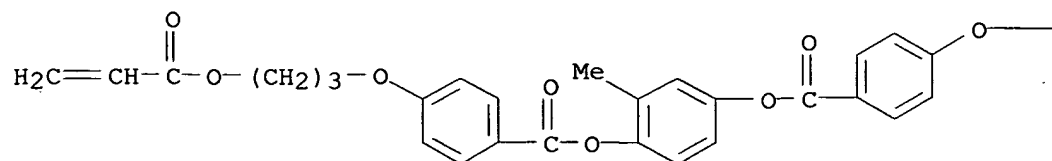


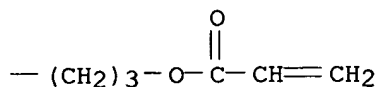
CM 3

CRN 174063-87-7

CMF C33 H32 O10

PAGE 1-A

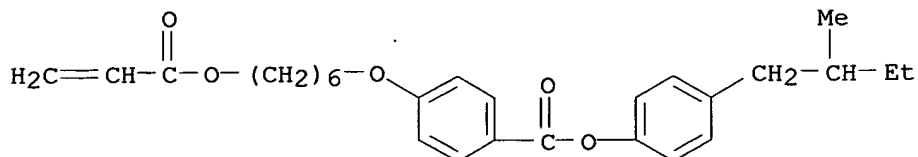




CM 4

CRN 168903-96-6

CMF C27 H34 O5



RN 196881-80-8 CAPLUS

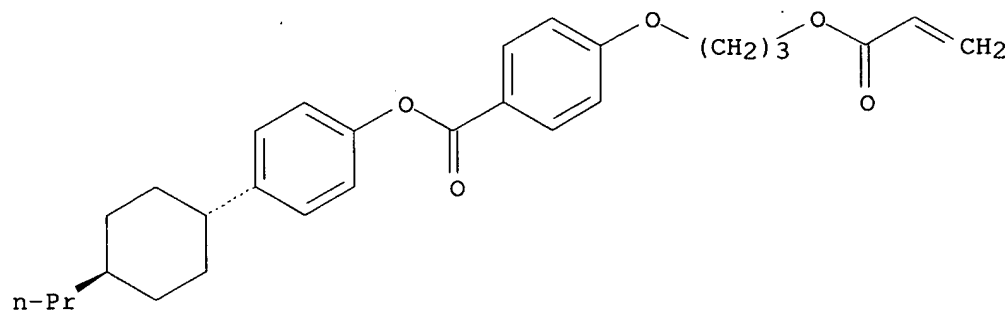
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester, polymer with 2-methyl-1,4-phenylene bis[4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate], trans-4-(4-propylcyclohexyl)phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate and trans-4-(4-propylcyclohexyl)phenyl 4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoate (9CI) (CA INDEX NAME)

CM 1

CRN 196881-71-7

CMF C28 H34 O5

Relative stereochemistry.

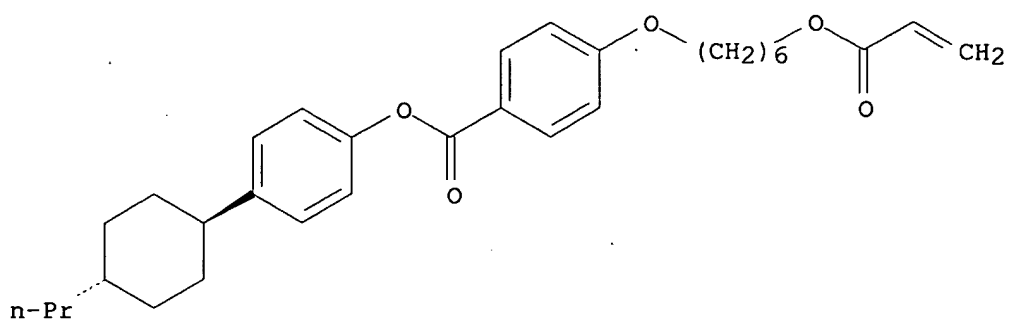


CM 2

CRN 182311-45-1

CMF C31 H40 O5

Relative stereochemistry.

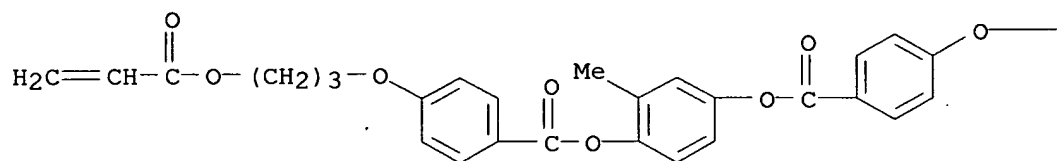


CM 3

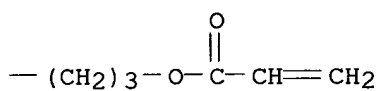
CRN 174063-87-7

CMF C33 H32 O10

PAGE 1-A



PAGE 1-B

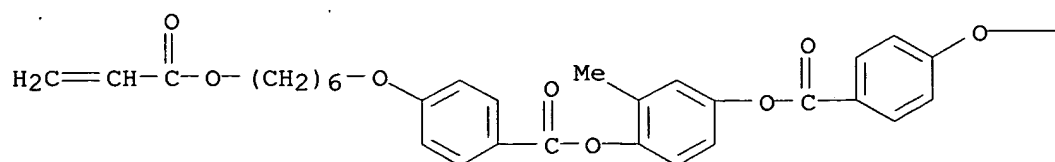


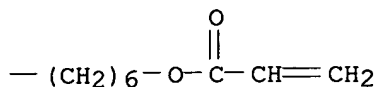
CM 4

CRN 125248-71-7

CMF C39 H44 O10

PAGE 1-A





L11 ANSWER 16 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:107370 CAPLUS

DOCUMENT NUMBER: 126:119059

TITLE: Photocrosslinkable liquid-crystalline dyes and their use

INVENTOR(S): Kelly, Stephen

PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.

SOURCE: Eur. Pat. Appl., 20 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 748852	A2	19961218	EP 1996-108308	19960524 <--
EP 748852	A3	19980429		
EP 748852	B1	20011212		
R: CH, DE, FR, GB, IT, LI, NL				
US 5707544	A	19980113	US 1996-650241	19960520 <--
JP 08333320	A	19961217	JP 1996-139942	19960603 <--
CN 1143665	A	19970226	CN 1996-107987	19960605 <--
CN 1136287	B	20040128		
HK 1011039	A1	20020404	HK 1998-112106	19981118
			CH 1995-1663	A 19950607

PRIORITY APPLN. INFO.:

OTHER SOURCE(S): MARPAT 126:119059

AB The dyes are of the form A1C6H3A2A3-4,3 (A1, A2 = crosslinkable, mesogenic groups; A3 = dichroic group containing e.g., an azo or anthraquinone moiety) and in their crosslinked state have use as optical materials. Thus, 2,5-bis[4-[6-(acryloyloxy)hexyloxy]phenylcarboxy]benzoic acid was esterified with 6-[4-(4-nitrophenylazo)phenoxy]hexanol to give liquid-crystalline 6-[4-(4-nitrophenylazo)phenoxy]hexyl 2,5-bis[4-[6-(acryloyloxy)hexyloxy]phenylcarboxy]benzoate (I). I could be copolymerized with pentyl 2,5-bis[4-[6-(acryloyloxy)hexyloxy]phenylcarboxy]benzoate in the presence of a photoinitiator using polarized light to provide a structured absorption filter.

IT 185993-59-3P 185993-60-6P 185993-61-7P

185993-62-8P 185993-63-9P 185993-64-0P

185993-65-1P 185993-66-2P 185993-67-3P

185993-69-5P 185993-70-8P 185993-73-1P

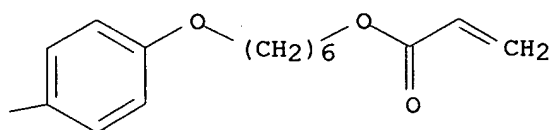
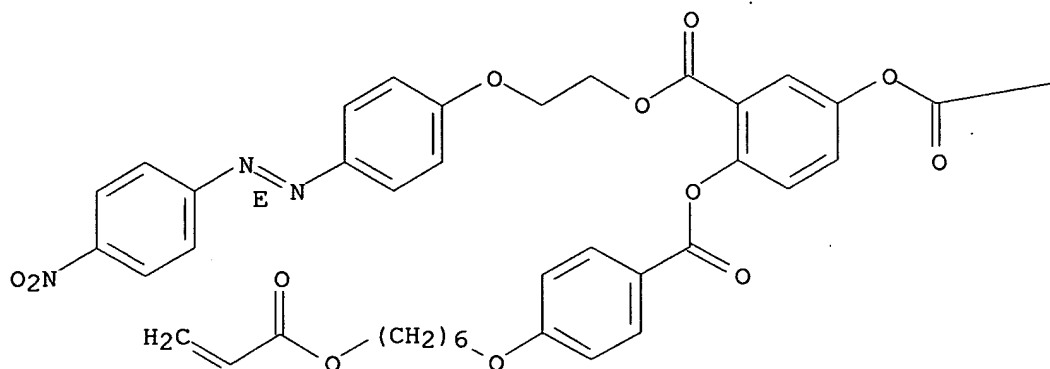
RL: IMF (Industrial manufacture); PREP (Preparation)

(photocrosslinkable liquid-crystalline dyes for optical materials)

RN 185993-59-3 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 2-[4-[(4-nitrophenyl)azo]phenoxy]ethyl ester, (E)- (9CI) (CA INDEX NAME)

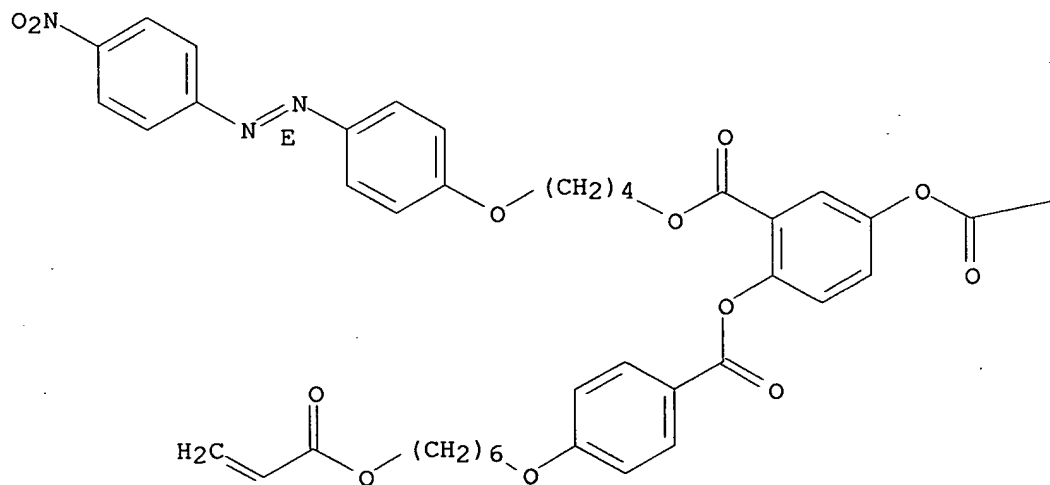
Double bond geometry as shown.

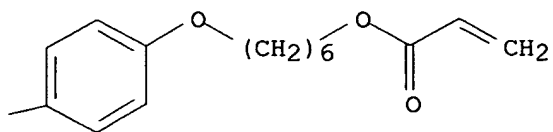


RN 185993-60-6 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-(E)-4-[(4-nitrophenyl)azo]phenoxy]butyl ester, (E)-(9CI) (CA INDEX NAME)

Double bond geometry as shown.

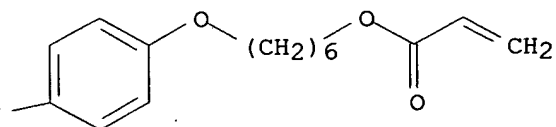
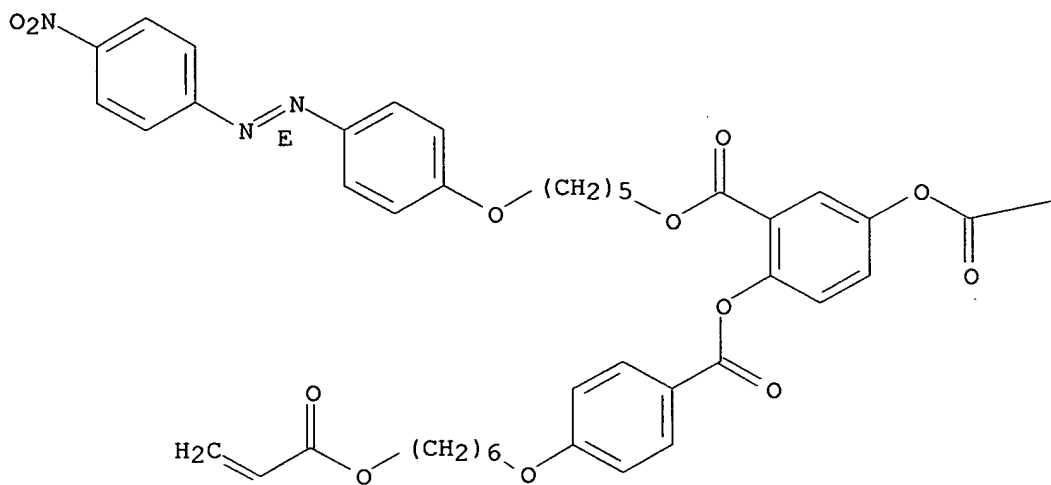




RN 185993-61-7 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 5-[4-[(4-nitrophenyl)azo]phenoxy]pentyl ester, (E)- (9CI) (CA INDEX
 NAME)

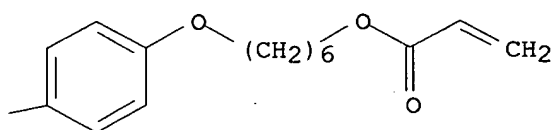
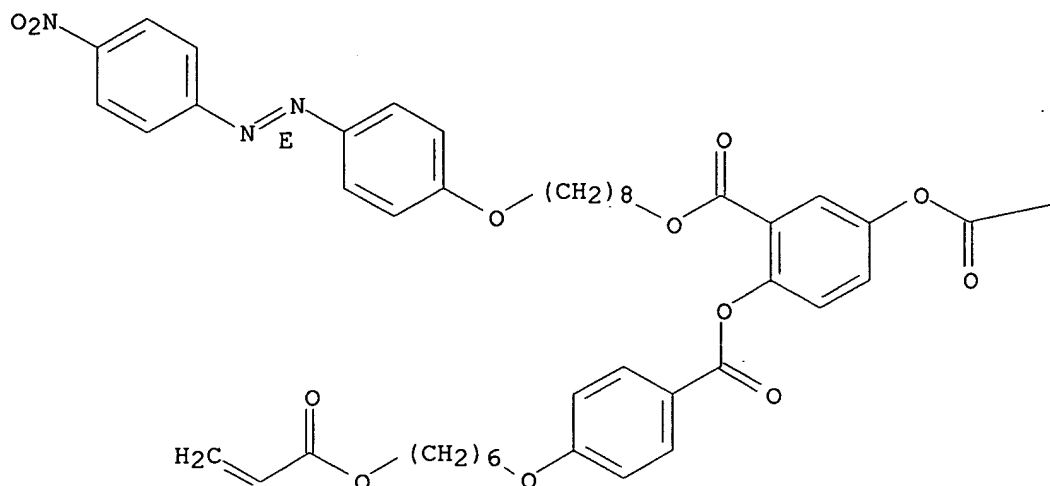
Double bond geometry as shown.



RN 185993-62-8 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 8-[4-[(4-nitrophenyl)azo]phenoxy]octyl ester, (E)- (9CI) (CA INDEX
 NAME)

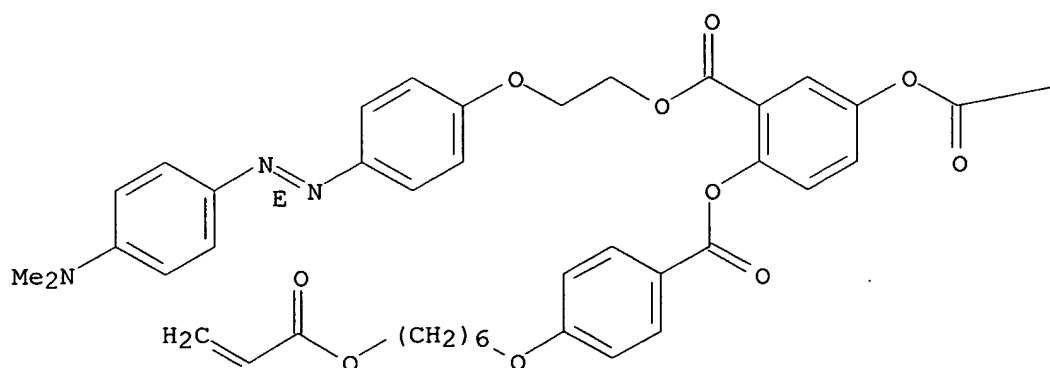
Double bond geometry as shown.

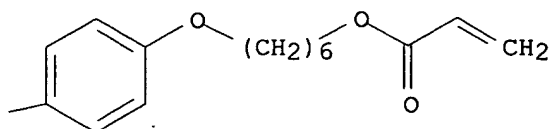


RN 185993-63-9 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 2-[4-[[4-(dimethylamino)phenyl]azo]phenoxy]ethyl ester, (E)- (9CI) (CA
 INDEX NAME)

Double bond geometry as shown.

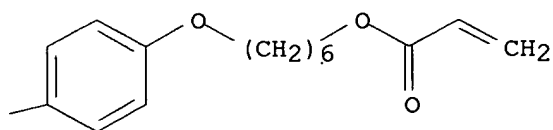
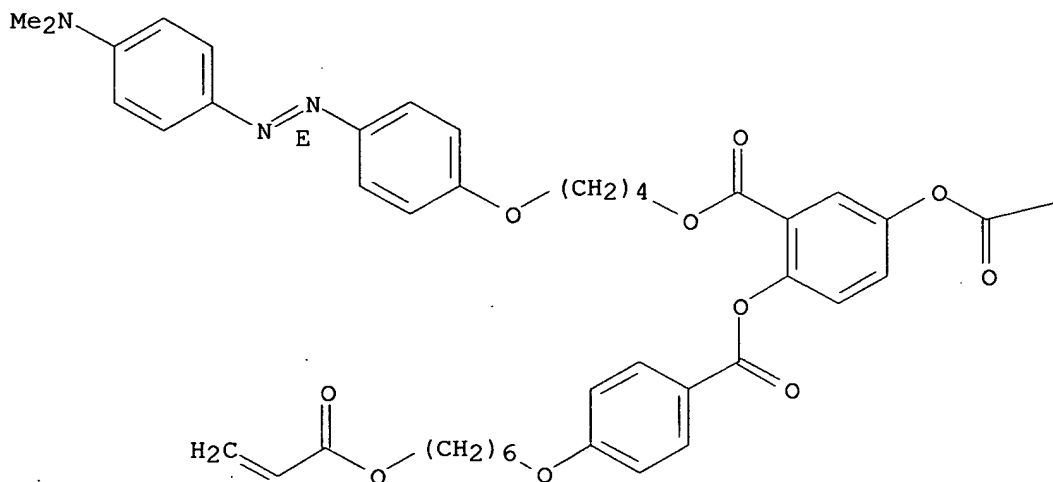




RN 185993-64-0 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 4-[4-[[4-(dimethylamino)phenyl]azo]phenoxy]butyl ester, (E)- (9CI) (CA INDEX NAME)

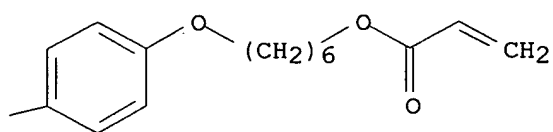
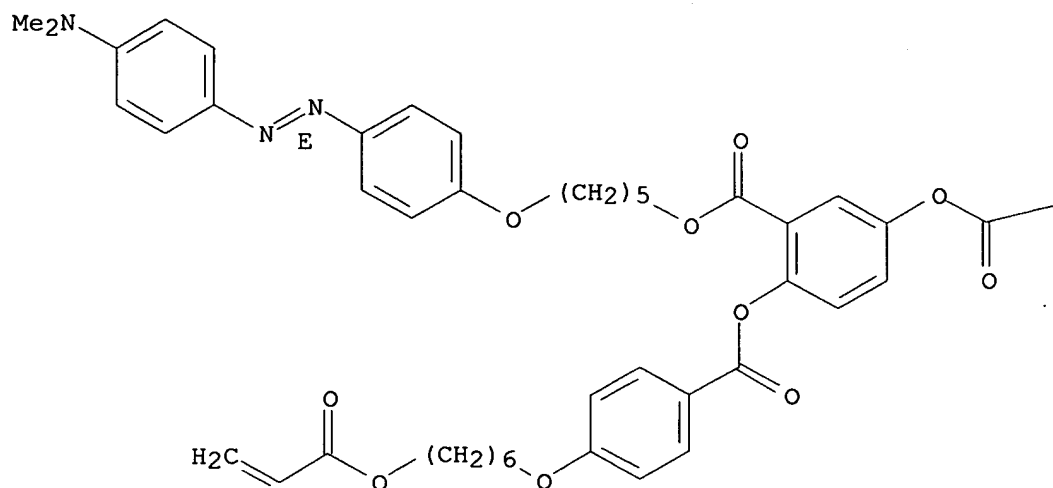
Double bond geometry as shown.



RN 185993-65-1 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-, 5-[4-[[4-(dimethylamino)phenyl]azo]phenoxy]pentyl ester, (E)- (9CI) (CA INDEX NAME)

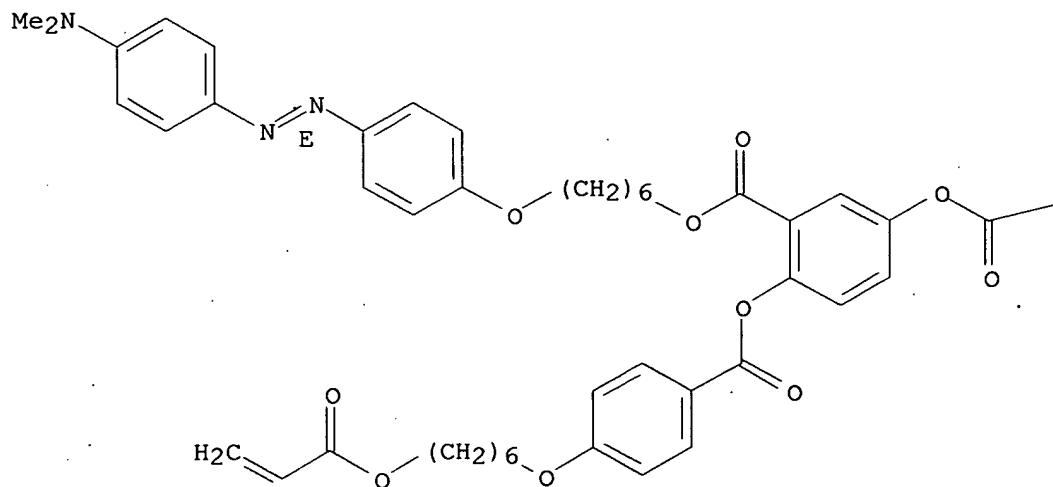
Double bond geometry as shown.

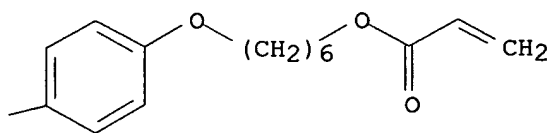


RN 185993-66-2 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 6-[4-[[4-(dimethylamino)phenyl]azo]phenoxy]hexyl ester, (E)- (9CI) (CA
 INDEX NAME)

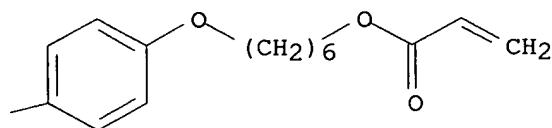
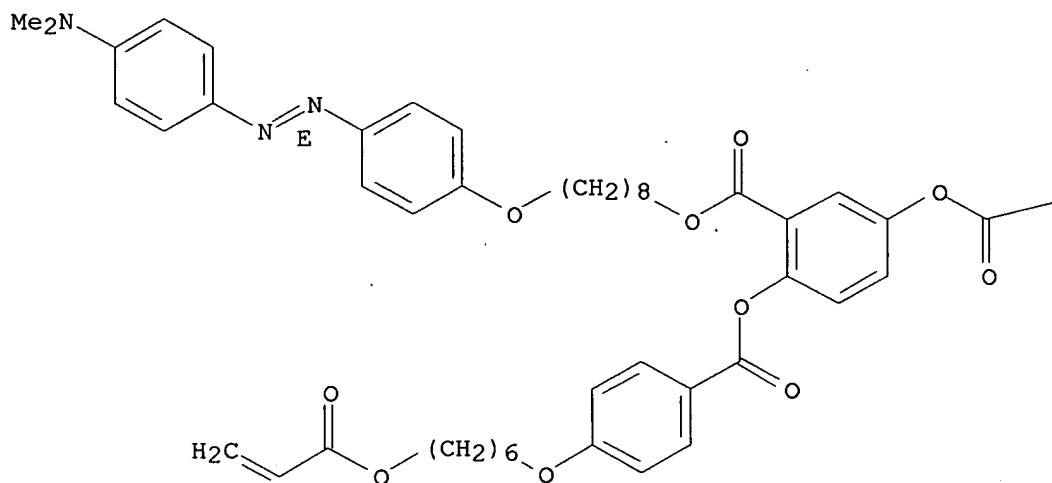
Double bond geometry as shown.





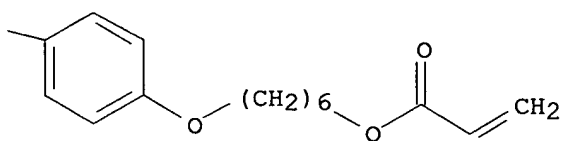
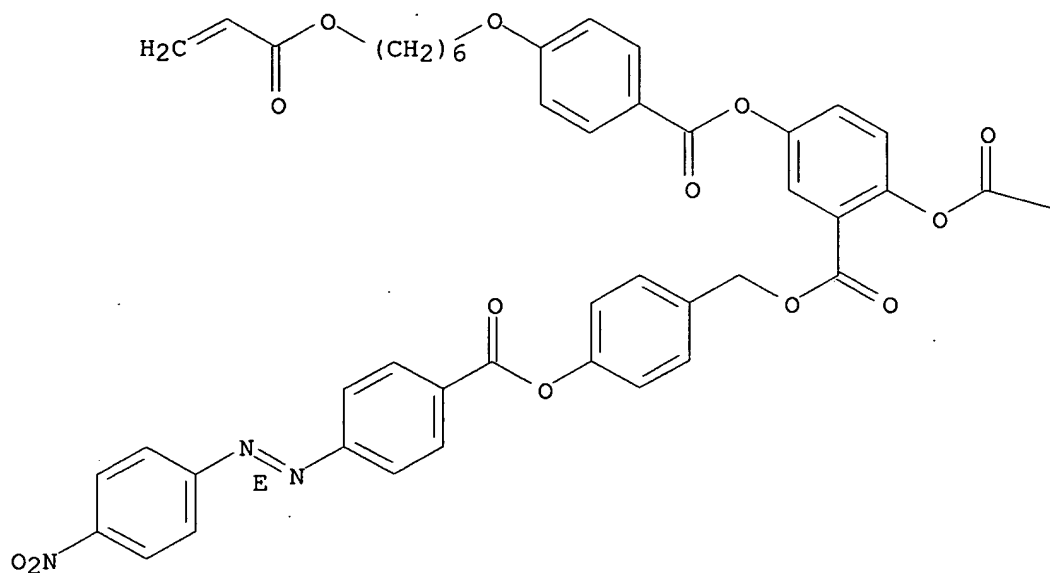
RN 185993-67-3 CAPLUS
 CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 8-[4-[[4-(dimethylamino)phenyl]azo]phenoxy]octyl ester, (E)- (9CI) (CA
 INDEX NAME)

Double bond geometry as shown.



RN 185993-69-5 CAPLUS
 CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , [4-[[4-[[4-(4-nitrophenyl)azo]benzoyl]oxy]phenyl]methyl ester, (E)- (9CI)
 (CA INDEX NAME)

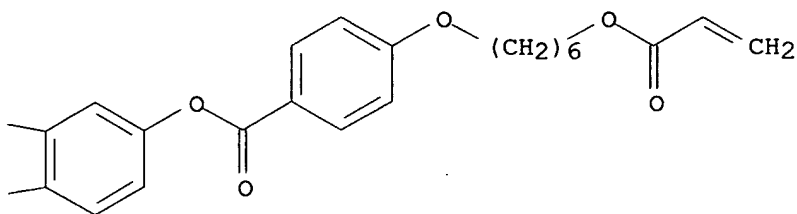
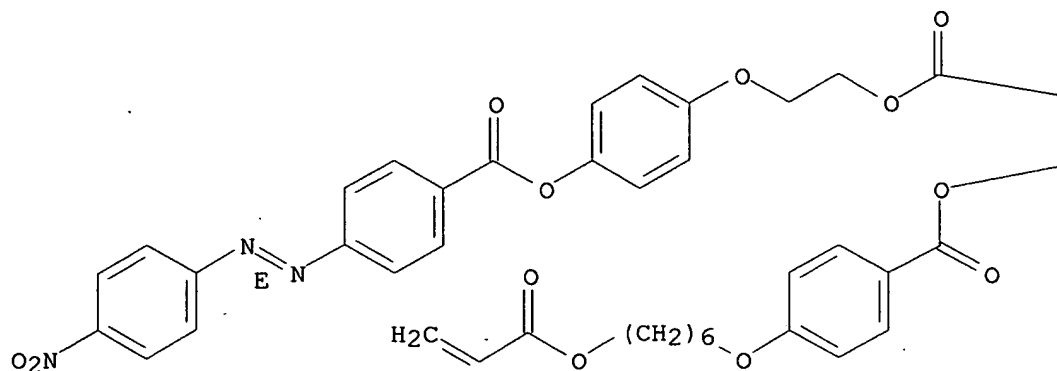
Double bond geometry as shown.



RN 185993-70-8 CAPLUS

CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 2-[4-[[4-[(4-nitrophenyl)azo]benzoyl]oxy]phenoxy]ethyl ester, (E)- (9CI)
 (CA INDEX NAME)

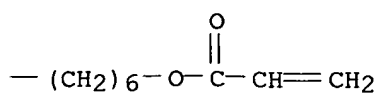
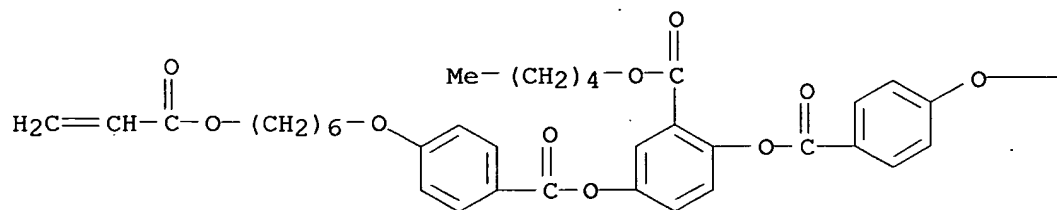
Double bond geometry as shown.



RN 185993-73-1 CAPLUS
 CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
 , 6-[4-[(4-nitrophenyl)azo]phenoxy]hexyl ester, (E)-, polymer with pentyl
 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]benzoate (9CI)
 (CA INDEX NAME)

CM 1

CRN 185993-72-0
 CMF C44 H52 O12

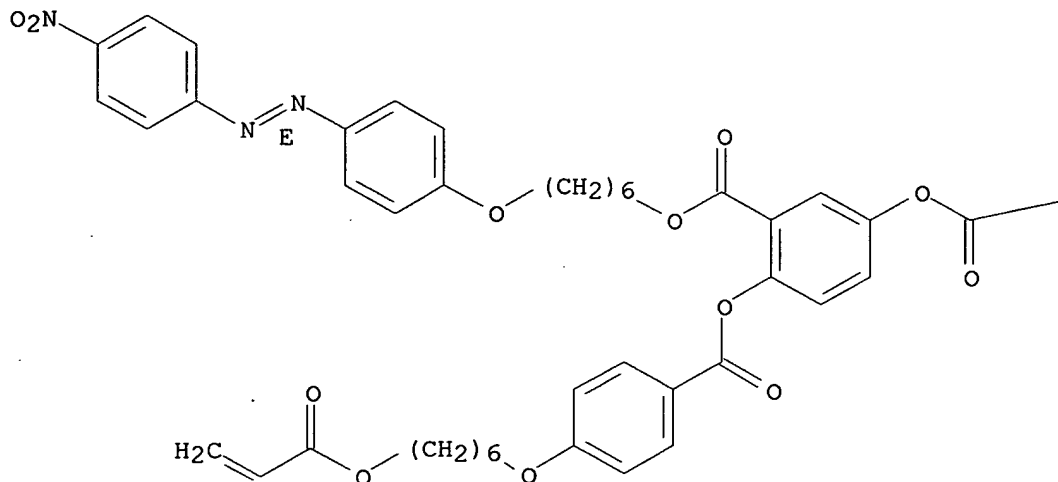


CM 2

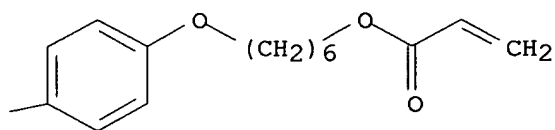
CRN 185993-58-2
CMF C57 H61 N3 O15

Double bond geometry as shown.

PAGE 1-A

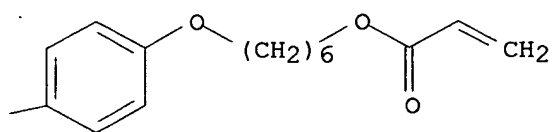
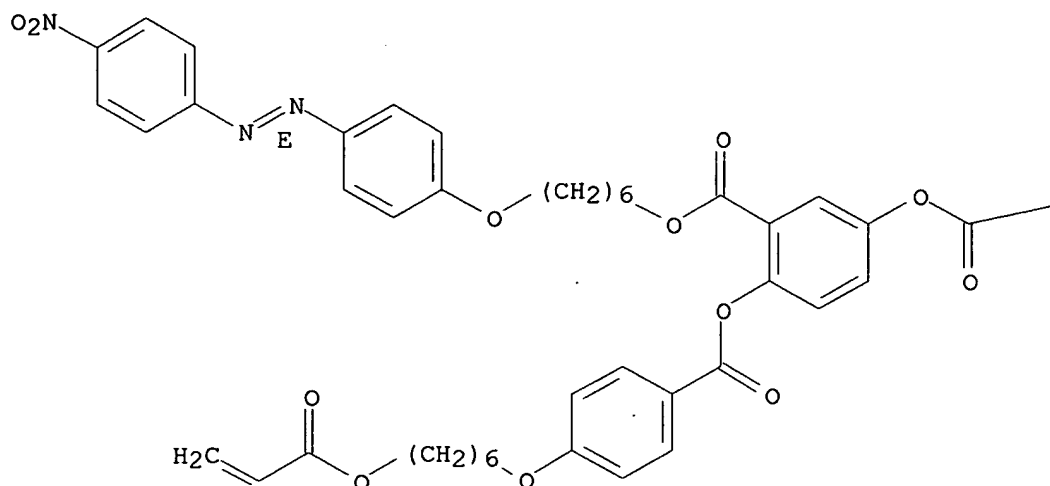


PAGE 1-B

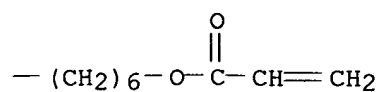
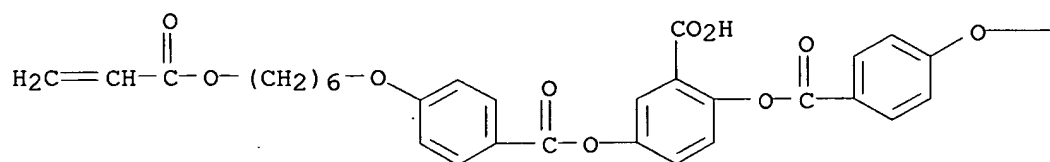


IT 185993-58-2P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(photocrosslinkable liquid-crystalline dyes for optical materials)
RN 185993-58-2 CAPLUS
CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-
, 6-[4-[(4-nitrophenyl)azo]phenoxy]hexyl ester, (E)- (9CI) (CA INDEX
NAME)

Double bond geometry as shown.



IT 171498-66-1
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (starting material; photocrosslinkable liquid-crystalline dyes for optical materials)
 RN 171498-66-1 CAPLUS
 CN Benzoic acid, 2,5-bis[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]-(9CI) (CA INDEX NAME)



L11 ANSWER 17 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1997:34908 CAPLUS

DOCUMENT NUMBER: 126:75275

TITLE: Effects of monomer structure on their organization and polymerization in a smectic liquid crystal

AUTHOR(S): Guymon, C. Allan; Hoggan, Erik N.; Clark, Noel A.; Rieker, Thomas P.; Walba, David M.; Bowman, Christopher N.

CORPORATE SOURCE: Dep. Chem. Eng., Univ. Colorado, Boulder, CO, 80309-0424, USA

SOURCE: Science (Washington, D. C.) (1997), 275(5296), 57-59

CODEN: SCIEAS; ISSN: 0036-8075

PUBLISHER: American Association for the Advancement of Science

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Photopolymerizable diacrylate monomers dissolved in fluid-layer smectic A and smectic C liquid crystal hosts exhibited significant spatial segregation and orientation that depend strongly on monomer structure. Small, flexible monomers such as 1,6-hexanediol diacrylate (HDDA) oriented parallel to the smectic layers and intercalated, whereas rod-shaped mesogen-like monomers such as 1,4-bis[4-(6-acryloyloxyhexyloxy)benzoyloxy]-2-methylbenzene (C6M) oriented normal to the smectic layers and collected within them. Such spatial segregation caused by the smectic layering dramatically enhanced photopolymn. rates; for HDDA, termination rates were reduced, whereas for C6M, both the termination and propagation rates were increased.

IT 125248-71-7, c 6m

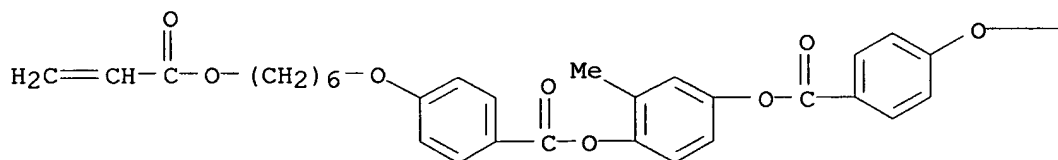
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)

(diacrylate monomer structure effect on organization and photopolymn. kinetics in smectic liquid-crystalline hosts)

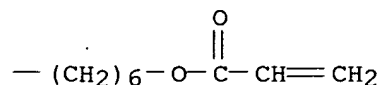
RN 125248-71-7 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L11 ANSWER 18 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:660855 CAPLUS

DOCUMENT NUMBER: 125:276859

TITLE: Intermediates and polymers of monomeric diactive

mesogenic compounds
 INVENTOR(S): Coates, David; Greenfield, Simon
 PATENT ASSIGNEE(S): Merck Patent Gmbh, Germany
 SOURCE: Brit. UK Pat. Appl., 33 pp.
 CODEN: BAXXDU
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2297549	A	19960807	GB 1995-2294	19950206 <--
GB 2297549	B	19990630		
WO 9624647	A1	19960815	WO 1996-EP240	19960122 <--
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE				
AU 9646203	A	19960827	AU 1996-46203	19960122 <--
EP 808350	A1	19971126	EP 1996-901749	19960122 <--
EP 808350	B1	20010718		
R: DE, GB, NL				
CN 1173891	A	19980218	CN 1996-191803	19960122 <--
JP 10513457	T	19981222	JP 1996-523926	19960122 <--
US 6090308	A	20000718	US 1997-875767	19970805 <--
US 6475574	B1	20021105	US 2000-575801	20000522
PRIORITY APPLN. INFO.:				
			GB 1995-2294	A 19950206
			EP 1995-114518	A 19950915
			WO 1996-EP240	W 19960122
			US 1997-875767	A1 19970805

OTHER SOURCE(S): MARPAT 125:276859

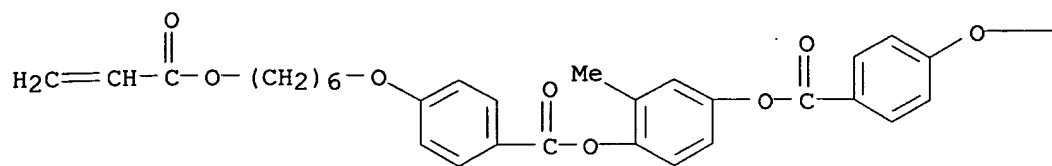
AB Direactive mesogenic liquid crystalline monomers or mixts. thereof comprising mesogen-containing components are prepared, the mesogens having two side chains attached thereto which contain a terminal polymerizable functional group, the mesogens and the functional group being separated by 2-20 spacer atoms, wherein both spacer groups have different chain lengths. Thus, hydroquinone was reacted with tetrahydropyran and 3-(p-carboxyphenoxy)propyl 3-chloropropionate to give an intermediate phenol derivative, which was esterified with 4-(p-carboxyphenoxy)butyl 3-chloropropionate and subsequently reduced to give compound H2C:CHCO2(CH2)3O-p-C6H4CO2-p-C6H4OCO-p-C6H4O(CH2)4O2CCH:CH2.

IT 125248-71-7P 174063-87-7P 182922-10-7P
 182922-11-8P 182922-12-9P 182922-13-0P
 182922-14-1P 182922-20-9P 182922-21-0P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (direactive mesogenic liquid crystalline monomers)

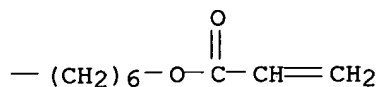
RN 125248-71-7 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



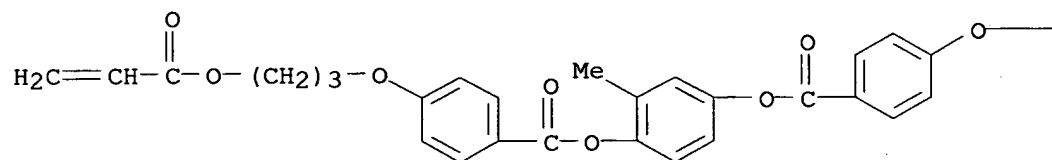
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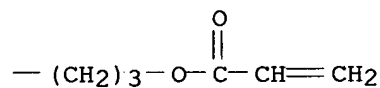
RN 174063-87-7 CAPLUS

CN Benzoic acid, 4-[3-[(1-oxo-2-propenyl)oxy]propoxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



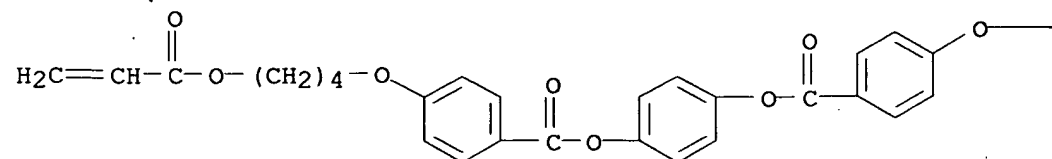
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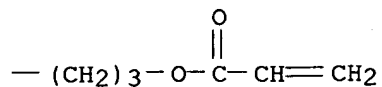


RN 182922-10-7 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 4-[[4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

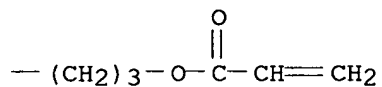
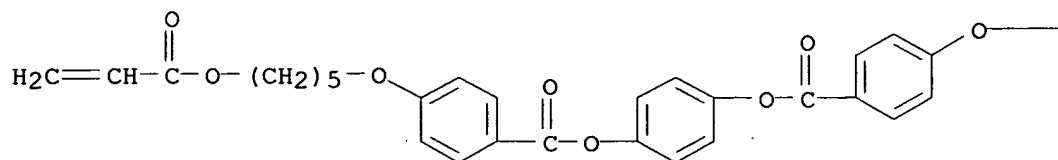
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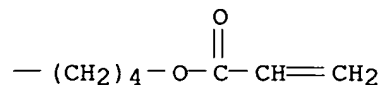
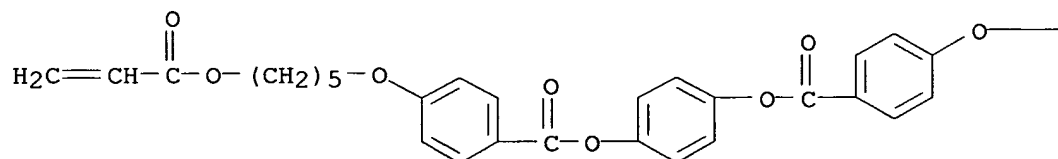
RN 182922-11-8 CAPLUS

CN Benzoic acid, 4-[[5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]-,
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(CA INDEX NAME)



RN 182922-12-9 CAPLUS

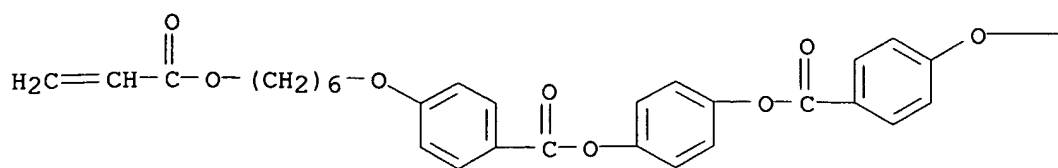
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 4-[[4-[[5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



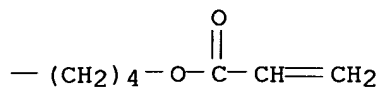
RN 182922-13-0 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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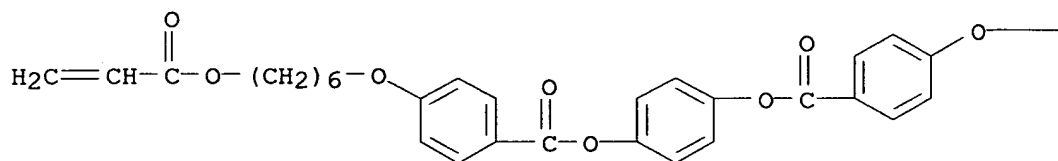
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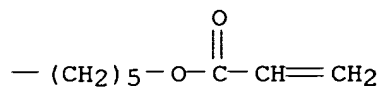
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CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
4-[[4-[[5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]benzoyl]oxy]phenyl ester (9CI)
(CA INDEX NAME)

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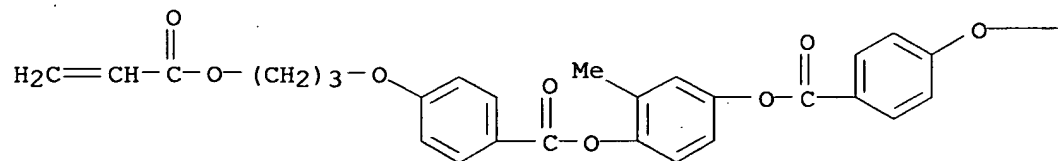
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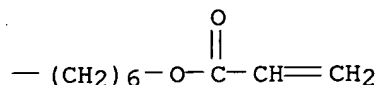


RN 182922-20-9 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
3-methyl-4-[[4-[[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoyl]oxy]phenyl ester
(9CI) (CA INDEX NAME)

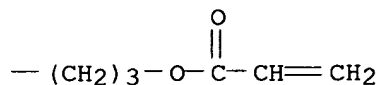
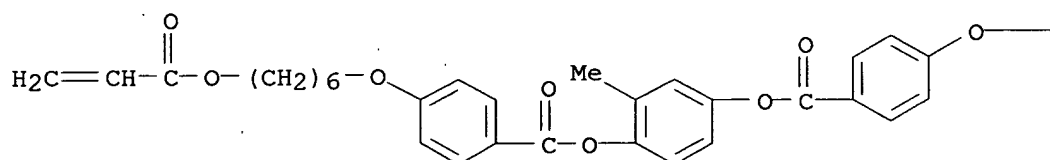
PAGE 1-A





RN 182922-21-0 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
2-methyl-4-[[4-[3-[(1-oxo-2-propenyl)oxy]propoxy]benzoyl]oxy]phenyl ester
(9CI) (CA INDEX NAME)



L11 ANSWER 19 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:571408 CAPLUS

DOCUMENT NUMBER: 125:222601

TITLE: Liquid crystal polymers copolymers and elastomers
containing a laterally attached mesogenic unit

AUTHOR(S): Whale, Eric A.; Davis, Frederick J.; Mitchell,
Geoffrey

CORPORATE SOURCE: Polymer Science Centre, University Reading, Reading,
RG6 2AD, UK

SOURCE: Journal of Materials Chemistry (1996), 6(9),
1479-1485

CODEN: JMACEP; ISSN: 0959-9428

PUBLISHER: Royal Society of Chemistry

DOCUMENT TYPE: Journal

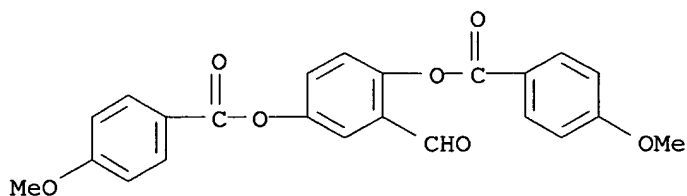
LANGUAGE: English

AB The synthesis of a closely-coupled laterally attached side-chain liquid
crystal polymer is described. The material exhibits liquid crystalline
behavior

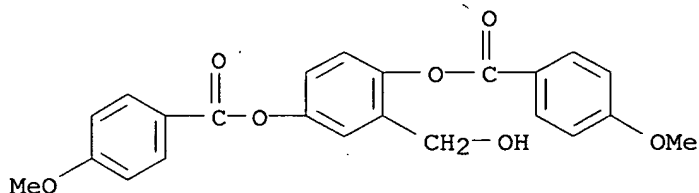
over a wide temperature range. Incorporation of non-mesogenic Me acrylate as a
comonomer with the potentially mesogenic monomer results in copolymers
which are liquid crystalline, even when the non-mesogenic portion exceeds 60
mol%. Macroscopic alignment can be readily realized in both homopolymer
and copolymer samples, either using a magnetic field or by pulling as
fibers, and X-ray scattering shows the level of global orientation to be
relatively high. Copolymn. of the mesogenic units with .apprx.10 mol% of
hydroxyethyl acrylate results in materials which can be crosslinked by
reaction with a diisocyanate. The application of mech. stress to liquid
crystalline elastomers based on this closely coupled unit results in some
global orientation of the mesogens, and the stress-strain-orientation

behavior of this crosslinked system is described. Both copolymers and elastomers are compared with liquid crystal polymers in which the mesogen is attached via a terminal linkage.

IT 105252-90-2P, 2,5-Bis(4-methoxybenzoyloxy)benzaldehyde
 105252-91-3P, 2,5-Bis(4-methoxybenzoyloxy)benzyl alcohol
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (in preparation of bis(methoxybenzoyloxy)benzyl acrylate monomer)
 RN 105252-90-2 CAPLUS
 CN Benzoic acid, 4-methoxy-, 2-formyl-1,4-phenylene ester (9CI) (CA INDEX NAME)



RN 105252-91-3 CAPLUS
 CN Benzoic acid, 4-methoxy-, 2-(hydroxymethyl)-1,4-phenylene ester (9CI) (CA INDEX NAME)

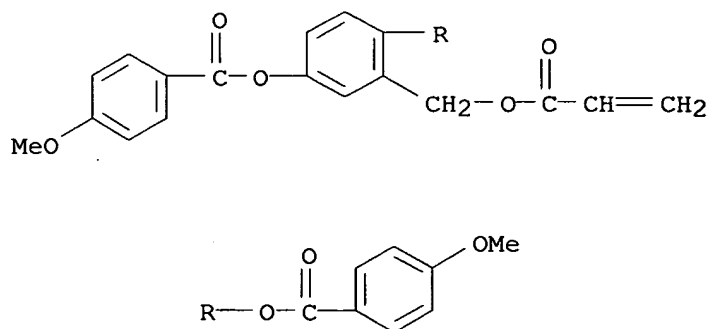


IT 105280-90-8P 181475-68-3P 181475-69-4P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and characterization of liquid-crystalline)
 RN 105280-90-8 CAPLUS
 CN Benzoic acid, 4-methoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 105252-92-4

CMF C26 H22 O8

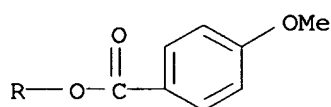
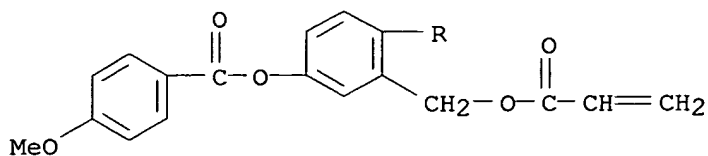


RN 181475-68-3 CAPLUS
CN Benzoic acid, 4-methoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene
ester, polymer with methyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 105252-92-4

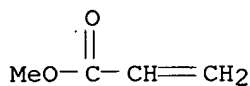
CMF C26 H22 O8



CM 2

CRN 96-33-3

CMF C4 H6 O2

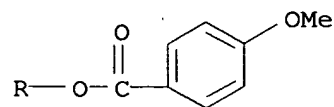
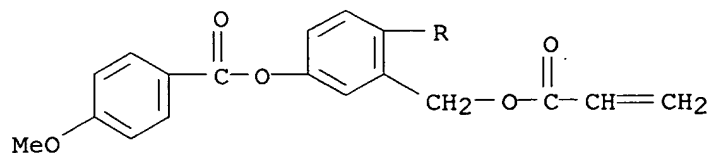


RN 181475-69-4 CAPLUS
CN Benzoic acid, 4-methoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene
ester, polymer with 2-hydroxyethyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

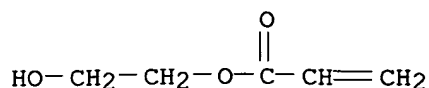
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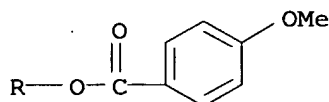
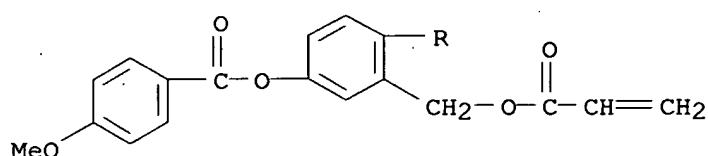


CM 2

CRN 818-61-1
CMF C5 H8 O3



IT 105252-92-4P, 2,5-Bis(4-methoxybenzoyloxy)benzyl acrylate
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation and polymerization of)
RN 105252-92-4 CAPLUS
CN Benzoic acid, 4-methoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene
ester (9CI) (CA INDEX NAME)



L11 ANSWER 20 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1995:994654 CAPLUS
DOCUMENT NUMBER: 124:177196
TITLE: Mixtures of polymerizable liquid-crystalline
compounds containing vinyl groups
INVENTOR(S): Siemensmeyer, Karl; Etzbach, Karl-Heinz; Delavier,
Paul; Meyer, Frank
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 93 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 4408171	A1	19950914	DE 1994-4408171	19940311 <--
WO 9524454	A1	19950914	WO 1995-EP707	19950227 <--
W: BR, CA, CN, JP, KR, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
EP 749466	A1	19961227	EP 1995-911272	19950227 <--
EP 749466	B1	19971112		
R: CH, DE, FR, GB, LI, NL				
CN 1143973	A	19970226	CN 1995-192043	19950227 <--
JP 11513360	T	19991116	JP 1995-523195	19950227 <--
US 5833880	A	19981110	US 1996-682587	19960823 <--
PRIORITY APPLN. INFO.:			DE 1994-4408171	A 19940311

OTHER SOURCE(S): MARPAT 124:177196

AB The title mixts. contain ≥ 2 liquid-crystalline compds.
 Z1Y1A1Y1-p-C6H4CO2-p-C6H4O2C-p-C6H4Y2A2Y2Z2 (Z1-2 = polymerizable group such as acryloyloxy; Y1-2 = a bond, O, CO2, O2C, S; A1-2 = spacing group such as alkylene or alkyleneoxyalkylene; ≥ 1 of the 3 p-C6H4 groups optionally contains 1-3 alkyl, halo, alkoxy, and/or other substituent). The mixts. are useful for the preparation of photocurable adhesives, liquid-crystalline polymers, etc. A liquid-crystalline mixture contained

1,4-bis[4-(6-acryloyloxyhexoxy)benzoyloxy]benzene and
 1,4-bis[4-(6-acryloyloxyhexoxy)benzoyloxy]-2-chlorobenzene.

IT 150809-90-8P 151518-94-4P 172257-69-1P
 172257-70-4P 172257-73-7P 172257-74-8P
 172257-75-9P 172257-78-2P 172257-79-3P
 172257-80-6P 172257-81-7P 172257-82-8P
 172258-16-1P 172258-17-2P 172258-18-3P
 172258-21-8P 172258-22-9P 172258-23-0P
 172258-24-1P 172258-25-2P 172258-29-6P
 172258-30-9P 172258-31-0P 172258-32-1P
 172258-33-2P 172258-34-3P 172258-35-4P
 172258-36-5P 172258-37-6P 172258-38-7P
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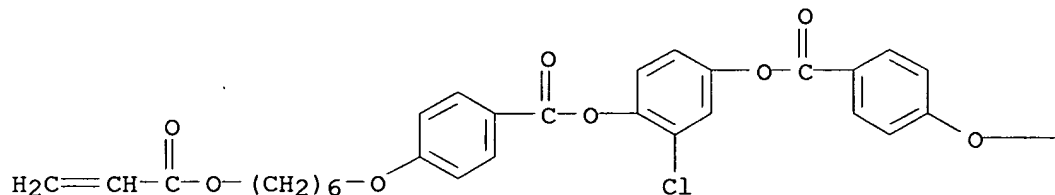
RL: IMF (Industrial manufacture); NUU (Other use, unclassified); PRP (Properties); PREP (Preparation); USES (Uses)

(liquid-crystalline polymerizable mixts. containing)

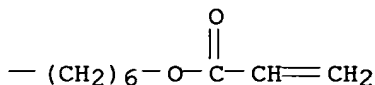
RN 150809-90-8 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-chloro-1,4-phenylene ester (9CI) (CA INDEX NAME)

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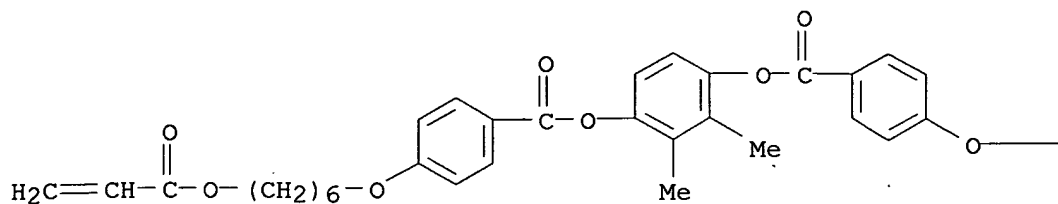
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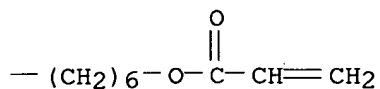
RN 151518-94-4 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2,3-dimethyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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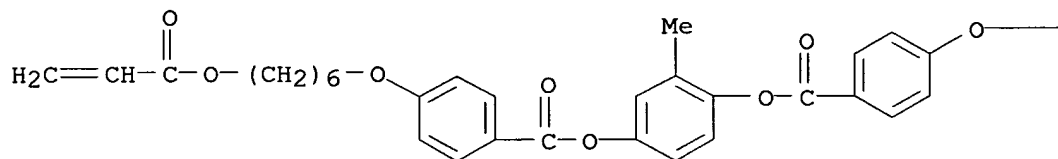


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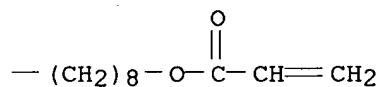


RN 172257-69-1 CAPLUS
 CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 3-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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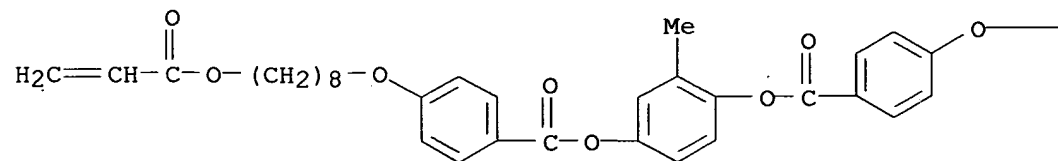


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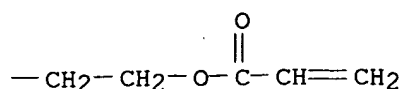


RN 172257-70-4 CAPLUS
 CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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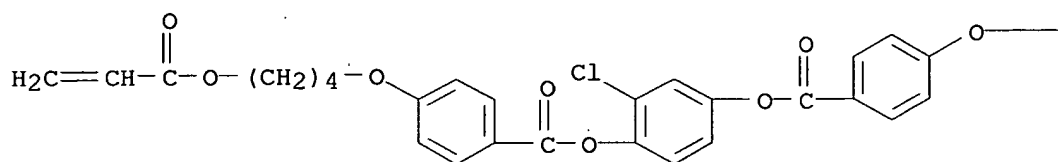


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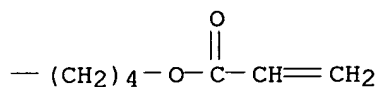


RN 172257-73-7 CAPLUS
 CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-1,4-phenylene ester (9CI) (CA INDEX NAME)

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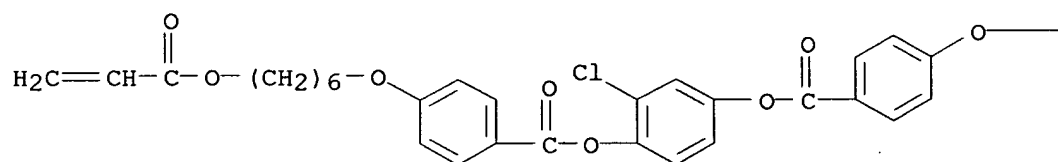


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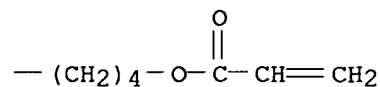


RN 172257-74-8 CAPLUS
 CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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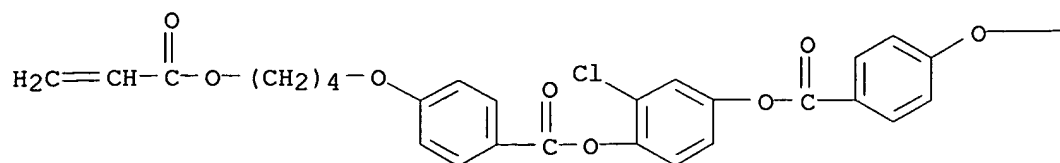


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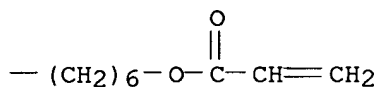


RN 172257-75-9 CAPLUS
 CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



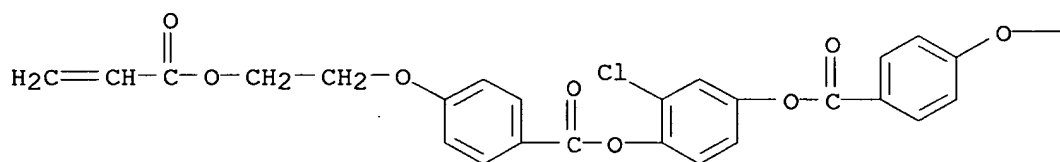
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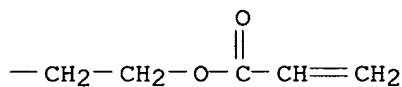
RN 172257-78-2 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-chloro-1,4-phenylene ester (9CI) (CA INDEX NAME)

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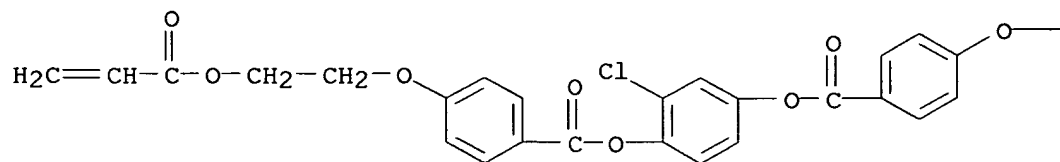
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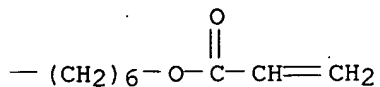


RN 172257-79-3 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

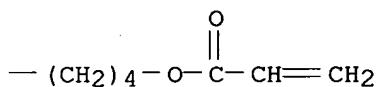
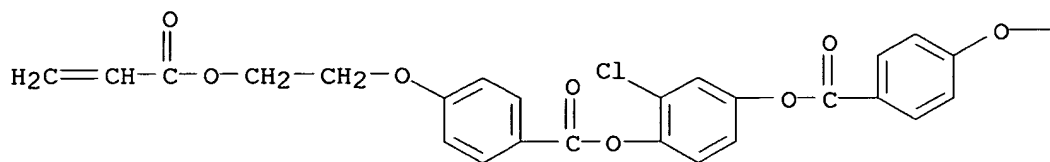
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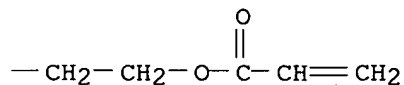
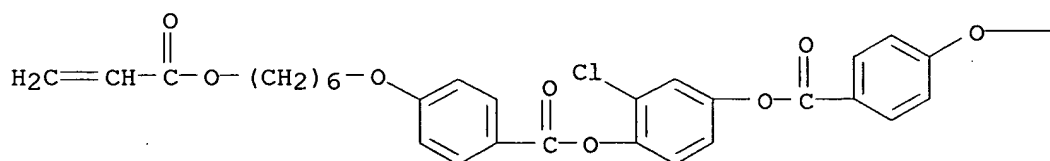
RN 172257-80-6 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



RN 172257-81-7 CAPLUS

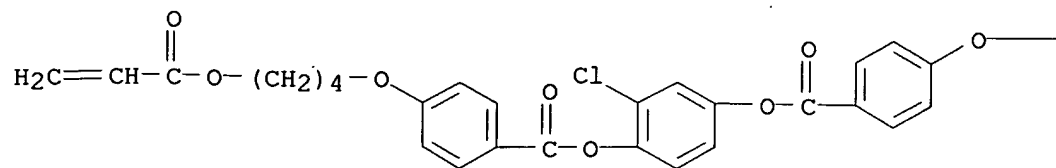
CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



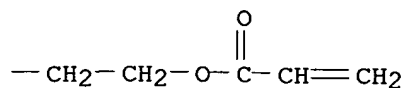
RN 172257-82-8 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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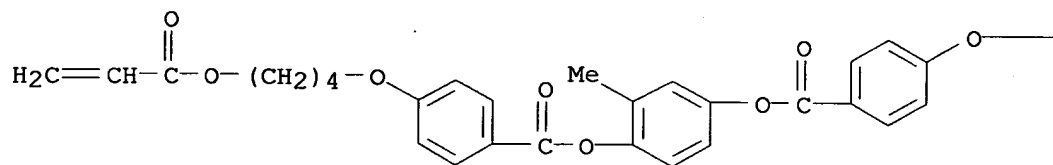
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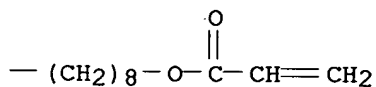
RN 172258-16-1 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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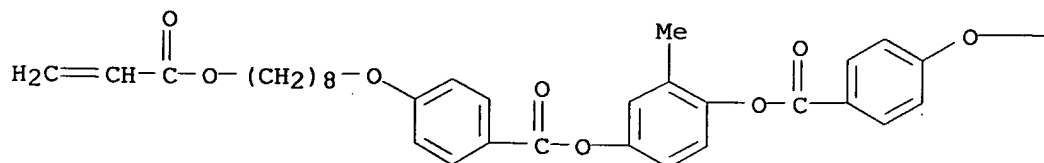
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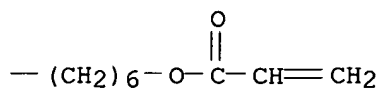


RN 172258-17-2 CAPLUS

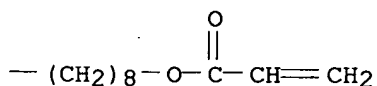
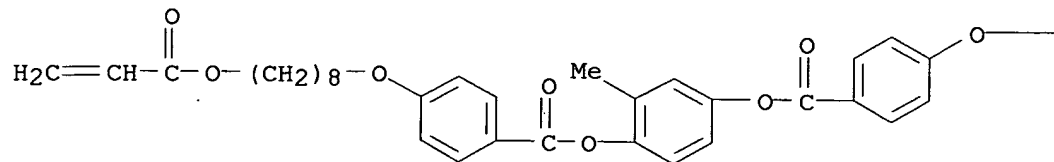
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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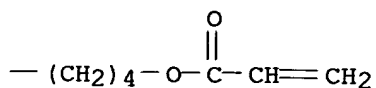
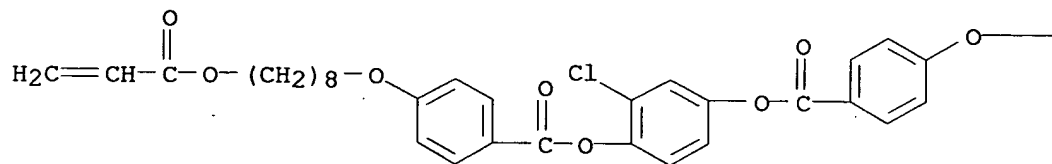


RN 172258-18-3 CAPLUS

CN Benzoic acid, 4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]-,
2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

RN 172258-21-8 CAPLUS

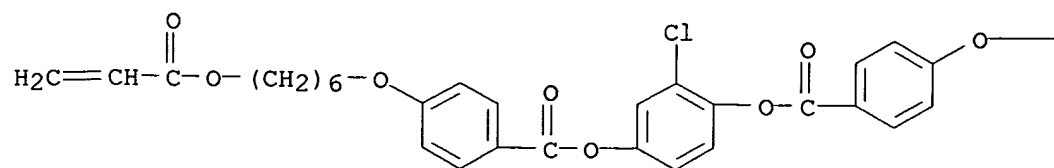
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



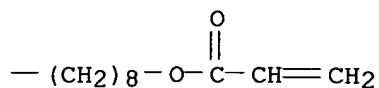
RN 172258-22-9 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
3-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl
ester (9CI) (CA INDEX NAME)

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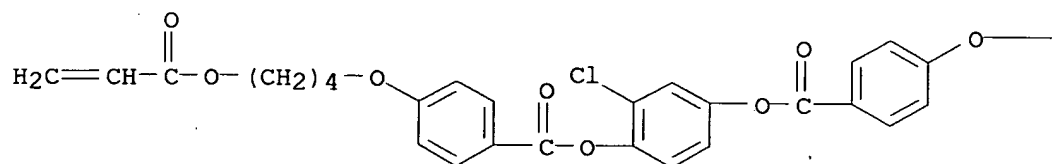
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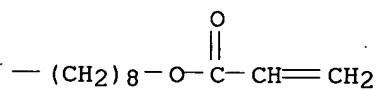
RN 172258-23-0 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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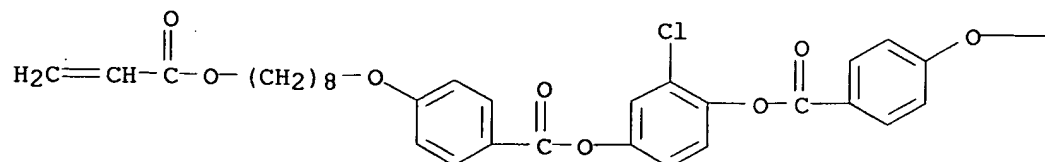
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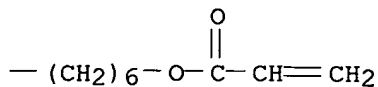


RN 172258-24-1 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

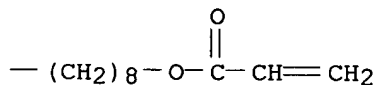
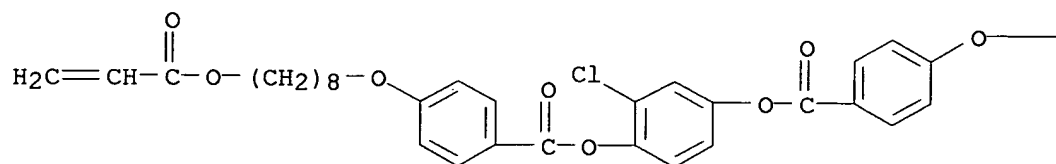
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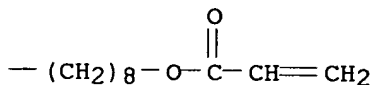
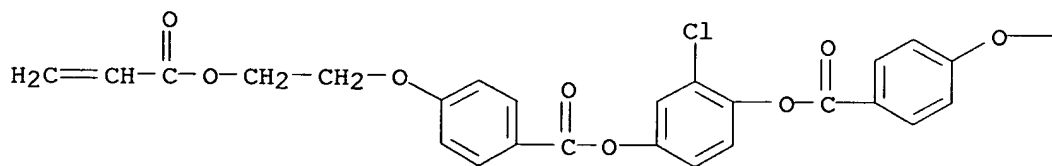
RN 172258-25-2 CAPLUS

CN Benzoic acid, 4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]-, 2-chloro-1,4-phenylene ester (9CI) (CA INDEX NAME)



RN 172258-29-6 CAPLUS

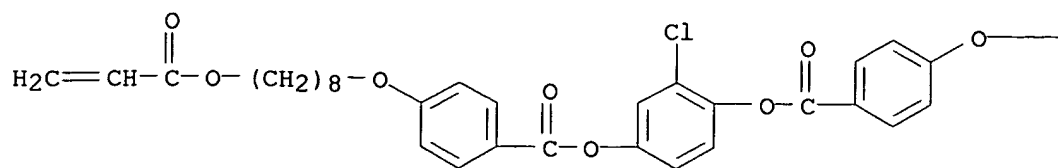
CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 3-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



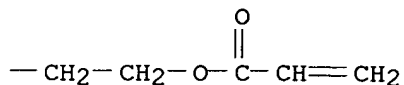
RN 172258-30-9 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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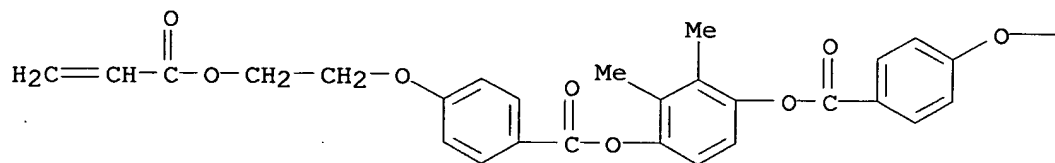
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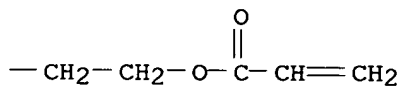
RN 172258-31-0 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2,3-dimethyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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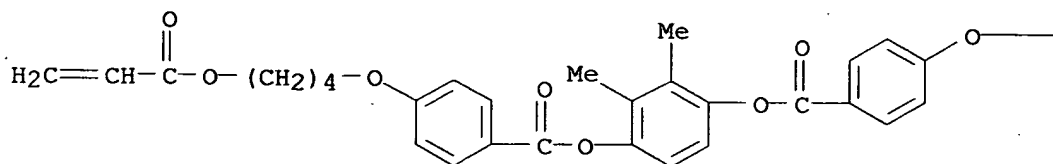
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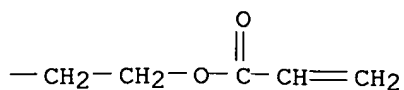


RN 172258-32-1 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2,3-dimethyl-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

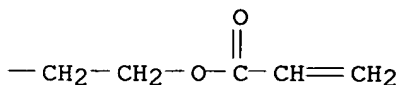
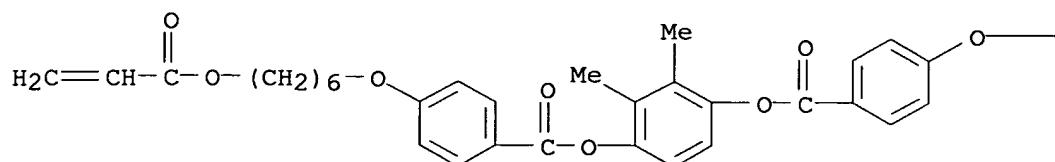
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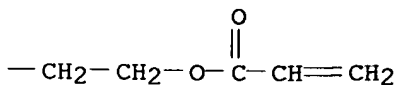
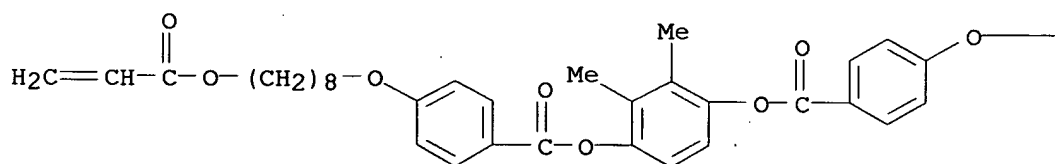
RN 172258-33-2 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2,3-dimethyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



RN 172258-34-3 CAPLUS

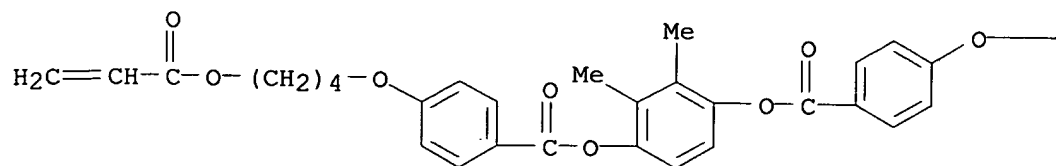
CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2,3-dimethyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



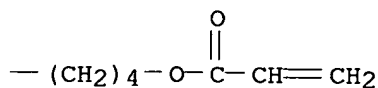
RN 172258-35-4 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2,3-dimethyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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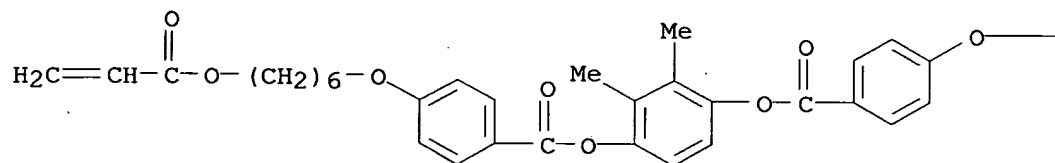
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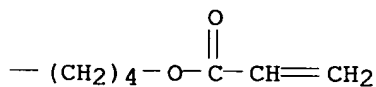
RN 172258-36-5 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2,3-dimethyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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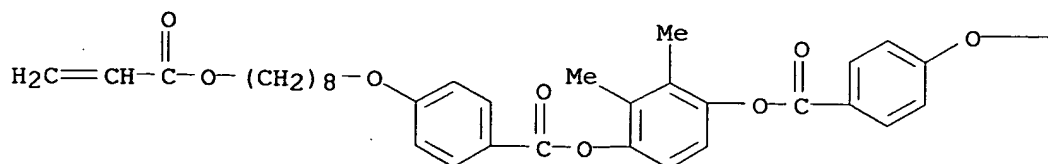
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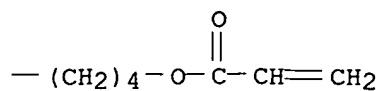


RN 172258-37-6 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2,3-dimethyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

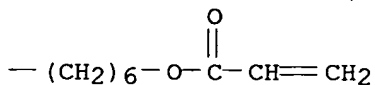
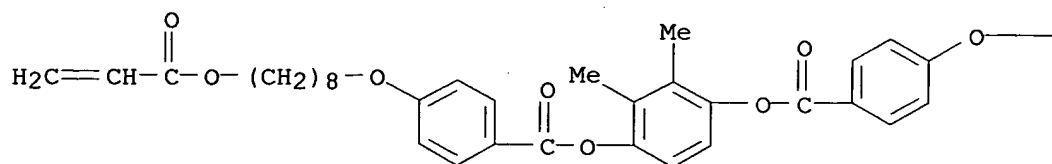
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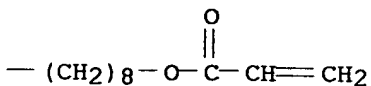
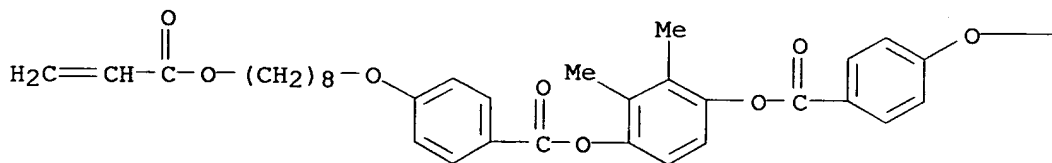
RN 172258-38-7 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
2,3-dimethyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl
ester (9CI) (CA INDEX NAME)



RN 172258-39-8 CAPLUS

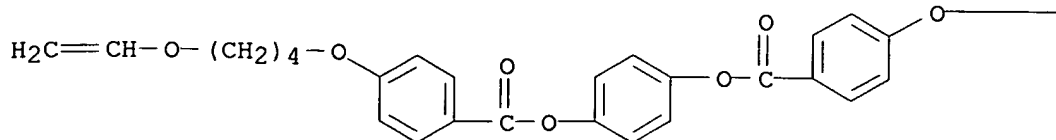
CN Benzoic acid, 4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]-,
2,3-dimethyl-1,4-phenylene ester (9CI) (CA INDEX NAME)



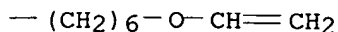
RN 172258-40-1 CAPLUS

CN Benzoic acid, 4-[4-(ethenyloxy)butoxy]-, 4-[[4-[[6-
(ethenyloxy)hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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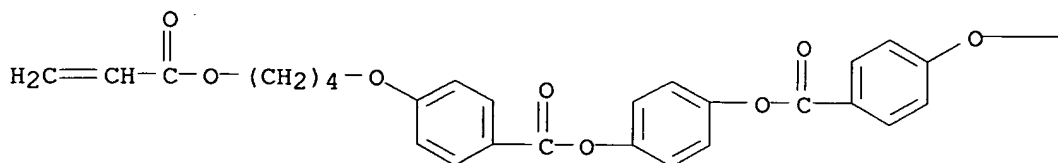
PAGE 1-B



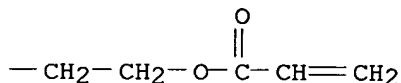
RN 172258-41-2 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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RN 172258-52-5 CAPLUS

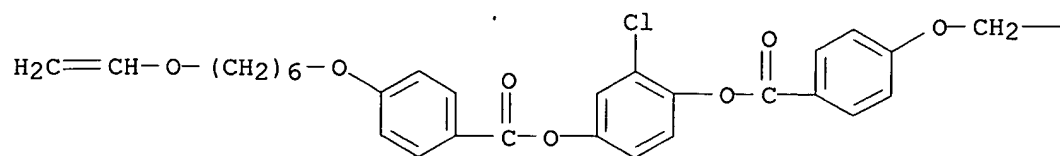
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4-[[6-(ethenyloxy)hexyl]oxy]benzoate], mixt. with 3-chloro-4-[[4-[2-(ethenyloxy)ethoxy]benzoyl]oxy]phenyl 4-[4-(ethenyloxy)butoxy]benzoate, 2-chloro-4-[[4-[2-(ethenyloxy)ethoxy]benzoyl]oxy]phenyl 4-[4-(ethenyloxy)butoxy]benzoate, 2-chloro-4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]phenyl 4-[4-(ethenyloxy)butoxy]benzoate, 3-chloro-4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]phenyl 4-[4-(ethenyloxy)butoxy]benzoate, 2-chloro-4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]phenyl 4-[2-(ethenyloxy)ethoxy]benzoate, 3-chloro-4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]phenyl 4-[2-(ethenyloxy)ethoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-(ethenyloxy)butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[2-(ethenyloxy)ethoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-(ethenyloxy)hexyl]oxy]benzoate] and hexahydrofuro[2,3-b]furan-3,6-diyl bis[4-[[6-(ethenyloxy)hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

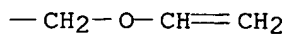
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CMF C32 H33 Cl O8

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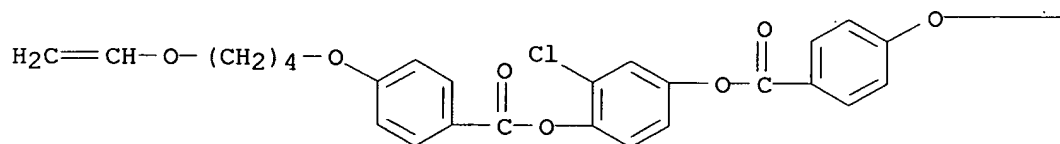
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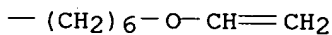
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CMF C34 H37 Cl O8

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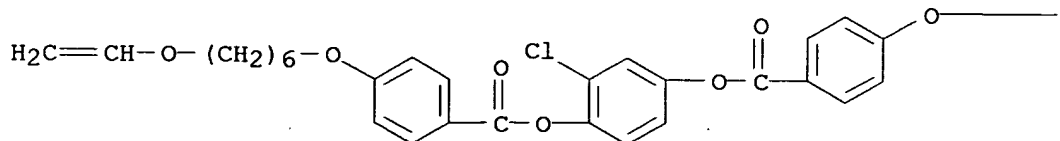
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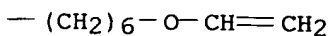
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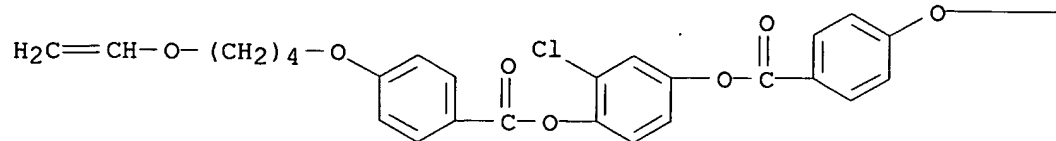
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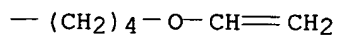
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CMF C32 H33 Cl O8

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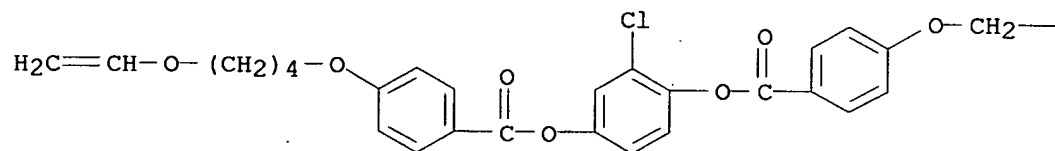
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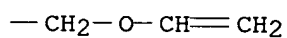
CM 5

CRN 172258-47-8
CMF C30 H29 Cl O8

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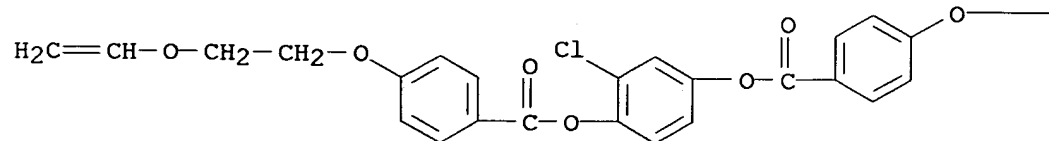
PAGE 1-B



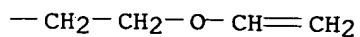
CM 6

CRN 172258-46-7
CMF C28 H25 Cl O8

PAGE 1-A

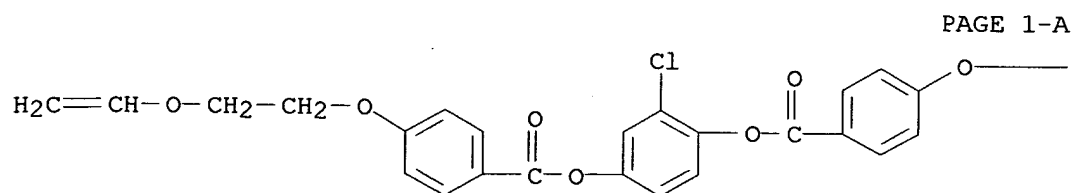


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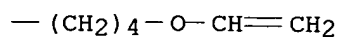


CM 7

CRN 172258-45-6
CMF C30 H29 Cl O8

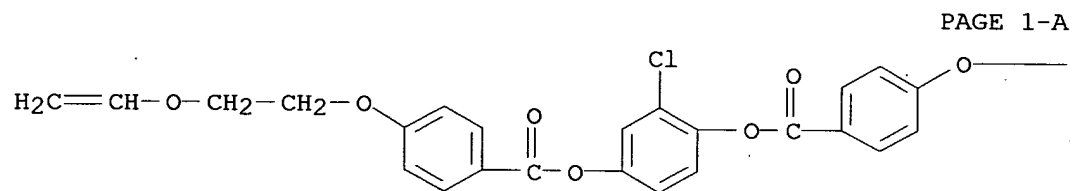


PAGE 1-B

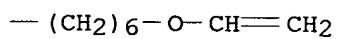


CM 8

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CMF C32 H33 Cl O8

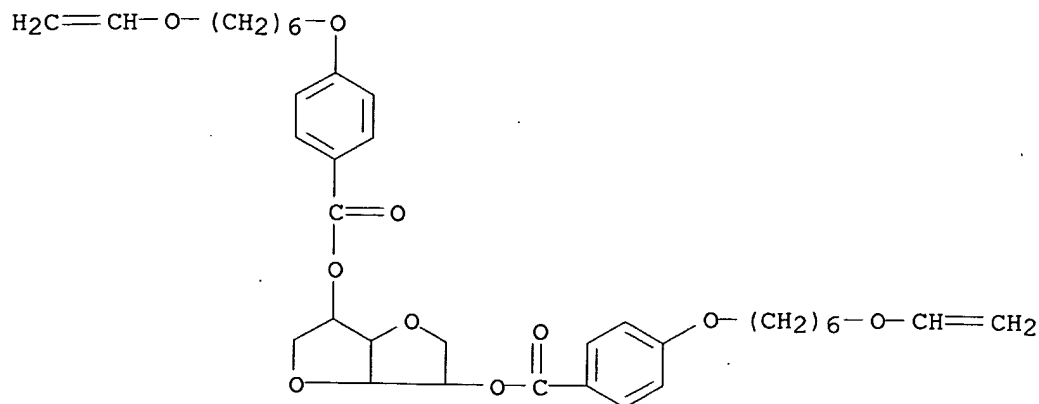


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CM 9

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CMF C36 H46 O10

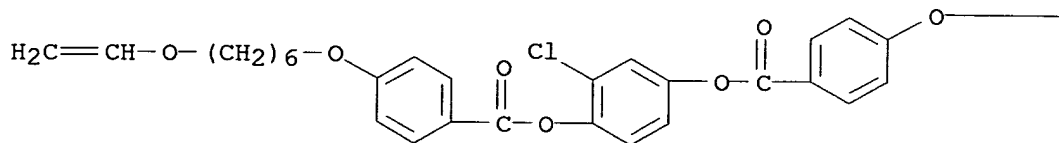


CM 10

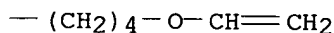
CRN 172258-42-3

CMF C34 H37 Cl O8

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RN 172258-61-6 CAPLUS

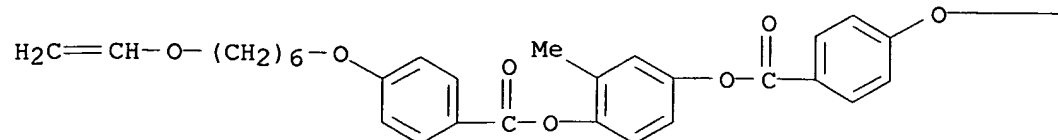
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4-[[6-(ethenyloxy)hexyl]oxy]benzoate],
 mixt. with 4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]-3-methylphenyl
 4-[[4-(ethenyloxy)butoxy]benzoate, 4-[[4-[[8-(ethenyloxy)hexyl]oxy]benzoyl]
 oxy]-2-methylphenyl 4-[[4-(ethenyloxy)butoxy]benzoate, 4-[[4-[[8-(3-
 ethenyloxy)octyl]oxy]benzoyl]oxy]-3-methylphenyl 4-[[4-
 (ethenyloxy)butoxy]benzoate, 4-[[4-[[6-(ethenyloxy)hexyl]oxy]benzoyl]oxy]-
 2-methylphenyl 4-[[4-(ethenyloxy)butoxy]benzoate, 4-[[4-[[6-
 (ethenyloxy)hexyl]oxy]benzoyl]oxy]-2-methylphenyl 4-[[6-
 (ethenyloxy)hexyl]oxy]benzoate, 4-[[4-[[8-(ethenyloxy)octyl]oxy]benzoyl]ox
 y]-3-methylphenyl 4-[[6-(ethenyloxy)hexyl]oxy]benzoate,
 2-methyl-1,4-phenylene bis[4-[[4-(ethenyloxy)butoxy]benzoate],
 2-methyl-1,4-phenylene bis[4-[[6-(ethenyloxy)hexyl]oxy]benzoate] and
 2-methyl-1,4-phenylene bis[4-[[8-(ethenyloxy)octyl]oxy]benzoate] (9CI)
 (CA INDEX NAME)

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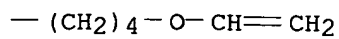
CRN 172258-60-5

CMF C35 H40 O8

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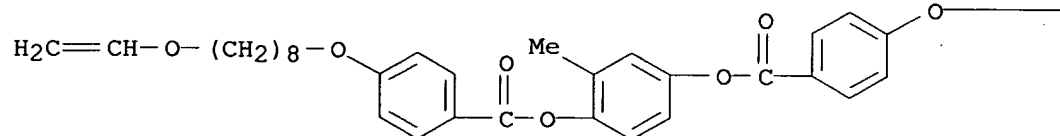


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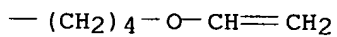
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CMF C37 H44 O8

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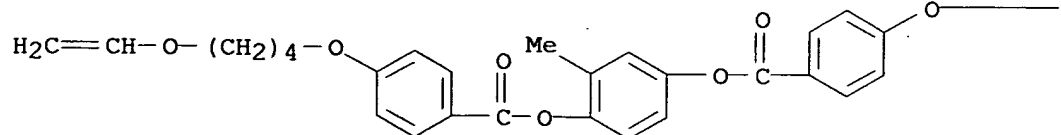


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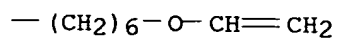
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CMF C35 H40 O8

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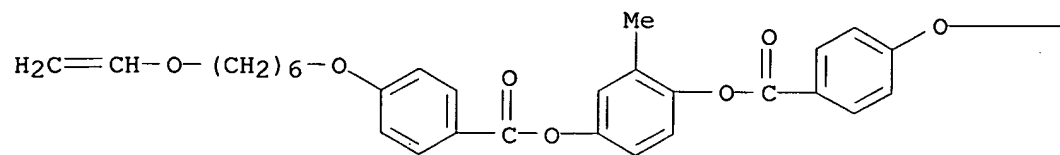
PAGE 1-B



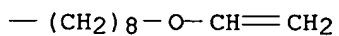
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CRN 172258-57-0
CMF C39 H48 O8

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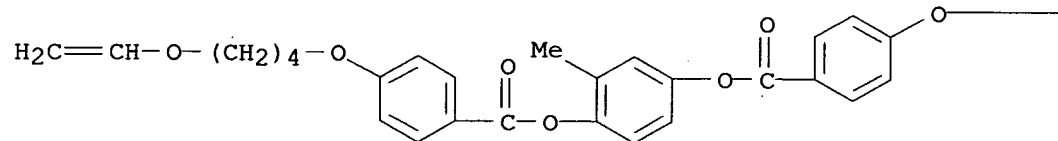
PAGE 1-B



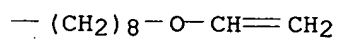
CM 5

CRN 172258-56-9
CMF C37 H44 O8

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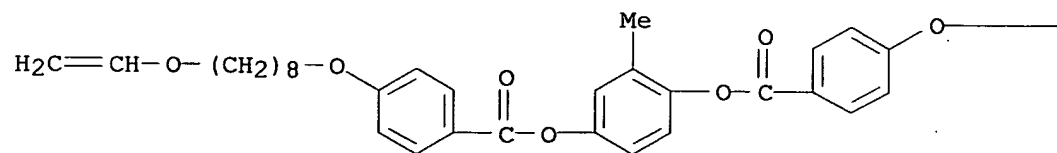
PAGE 1-B



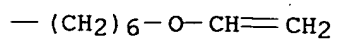
CM 6

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CMF C39 H48 O8

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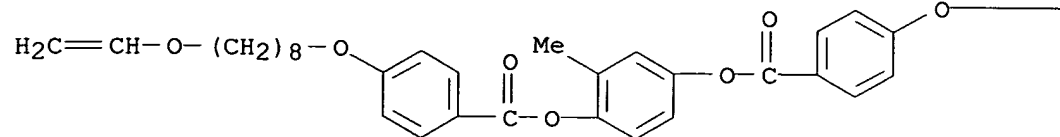


CM 7

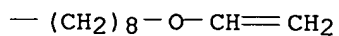
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CMF C41 H52 O8

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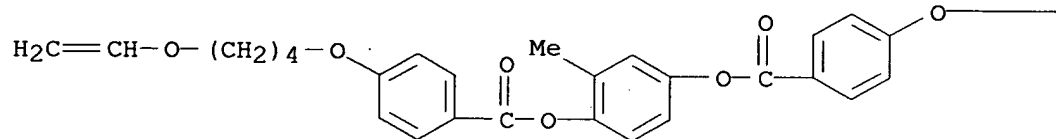


CM 8

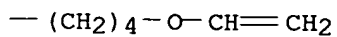
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CMF C33 H36 O8

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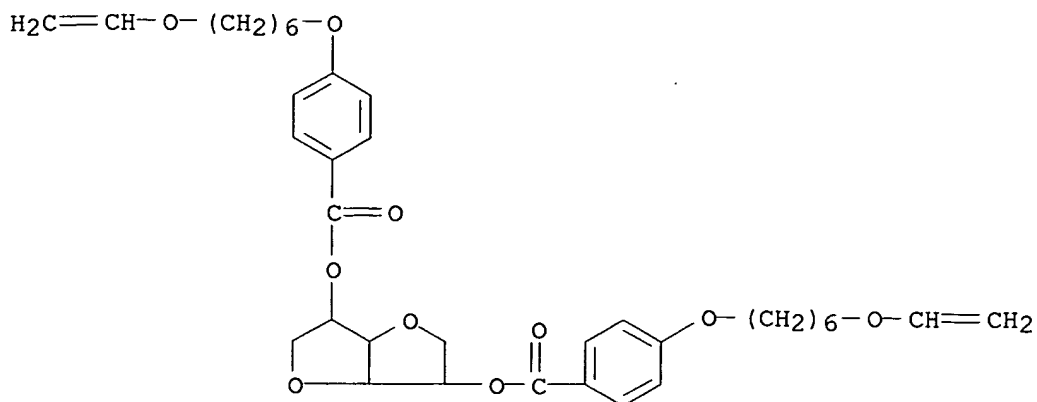
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CM 9

CRN 172258-43-4

CMF C36 H46 O10

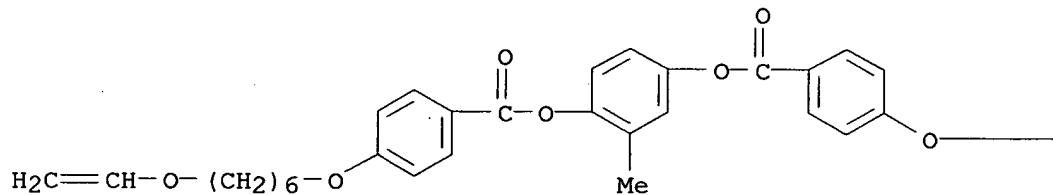


CM 10

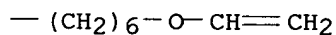
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CMF C37 H44 O8

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IT 125248-71-7 132900-75-5 172258-06-9

172258-07-0 172258-08-1 172258-09-2

172258-10-5 172258-11-6 172258-12-7

172258-15-0 172258-28-5

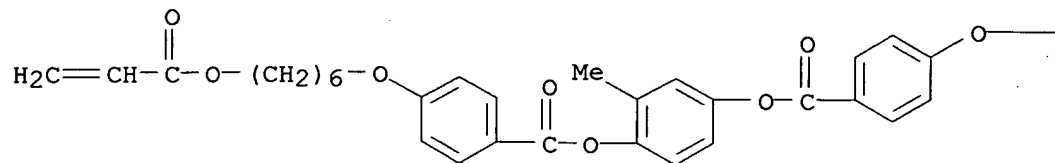
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(liquid-crystalline polymerizable mixts. containing)

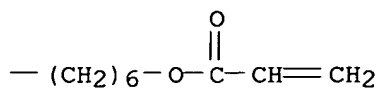
RN 125248-71-7 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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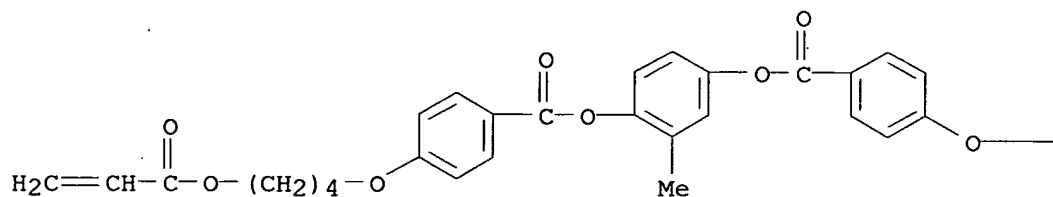


PAGE 1-B

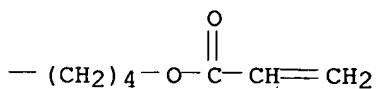


RN 132900-75-5 CAPLUS
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PAGE 1-A

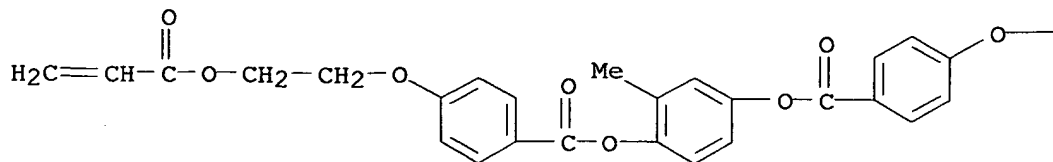


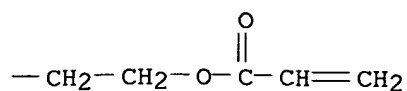
PAGE 1-B



RN 172258-06-9 CAPLUS
 CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

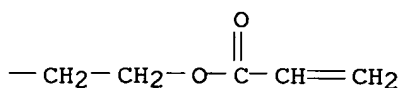
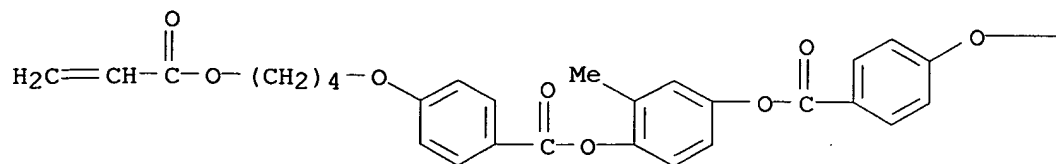
PAGE 1-A





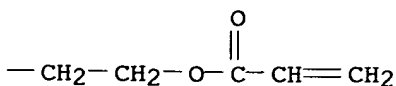
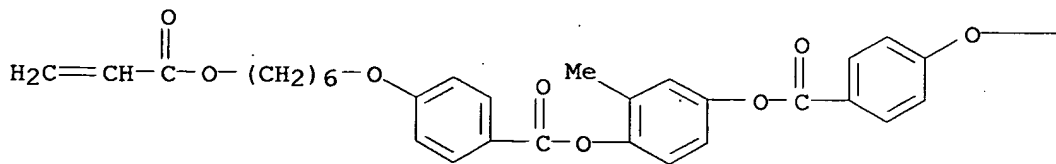
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CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



RN 172258-08-1 CAPLUS

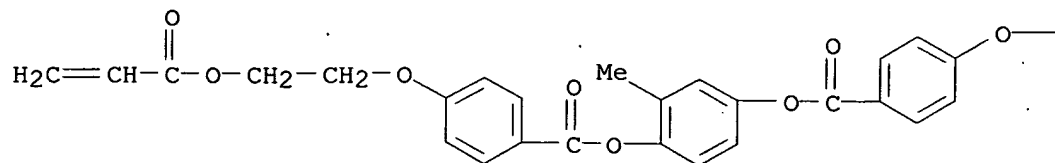
CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 3-methyl-4-[[4-[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



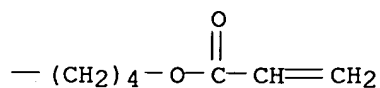
RN 172258-09-2 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-methyl-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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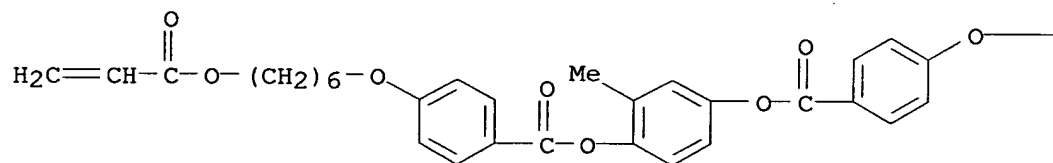
PAGE 1-B



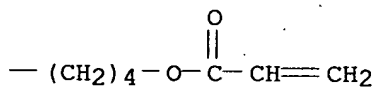
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CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

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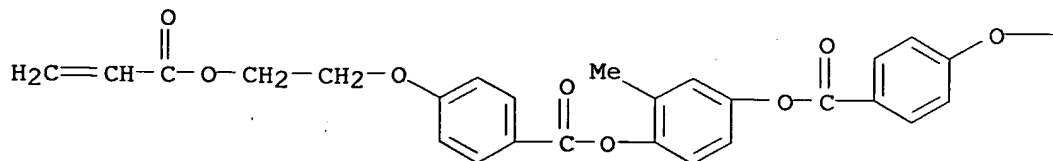
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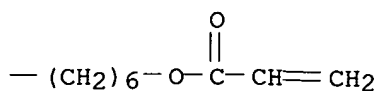


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CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 2-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)

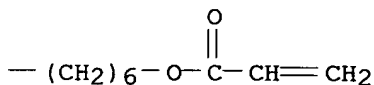
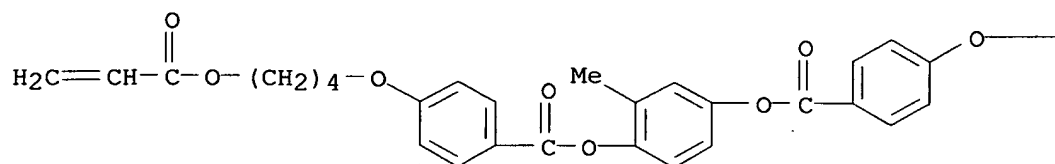
PAGE 1-A





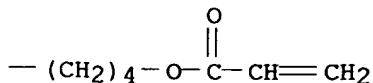
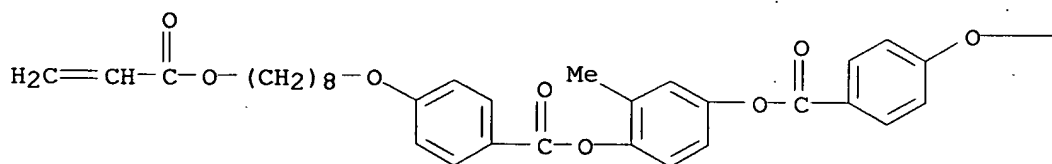
RN 172258-12-7 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



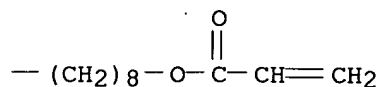
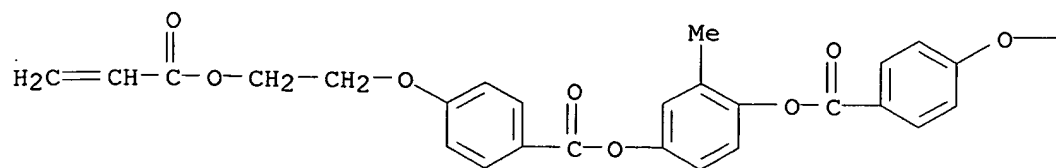
RN 172258-15-0 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 3-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



RN 172258-28-5 CAPLUS

CN Benzoic acid, 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]-, 3-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl ester (9CI) (CA INDEX NAME)



IT 172257-71-5 172257-72-6 172257-76-0
 172257-83-9 172257-86-2 172257-87-3
 172257-96-4 172257-97-5 172258-13-8
 172258-14-9 172258-19-4 172258-20-7
 172258-26-3 172258-27-4 172339-26-3
 172339-28-5 172339-29-6 172339-30-9
 172339-31-0 172339-32-1 172339-33-2
 172339-34-3 172339-35-4 172339-37-6
 172339-38-7 172339-39-8 172339-40-1
 172339-41-2 172487-01-3 172931-27-0
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RL: NUU (Other use, unclassified); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
 (properties and uses of liquid-crystalline polymerizable)

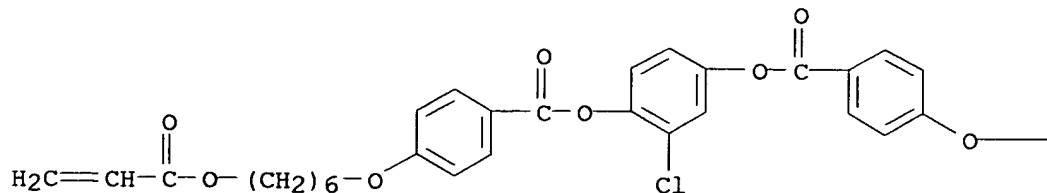
RN 172257-71-5 CAPLUS

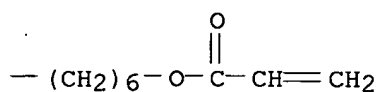
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-chloro-1,4-phenylene ester, mixt. with 1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 150809-90-8

CMF C38 H41 Cl O10



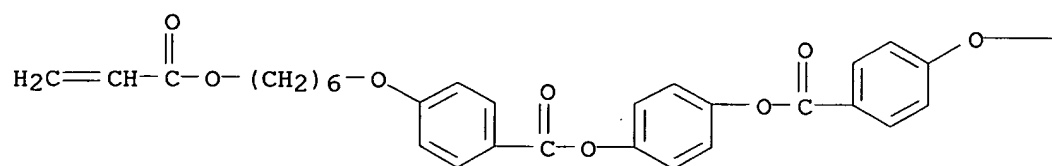


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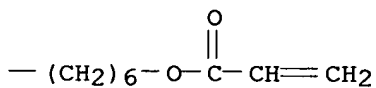
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CMF C38 H42 O10

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RN 172257-72-6 CAPLUS

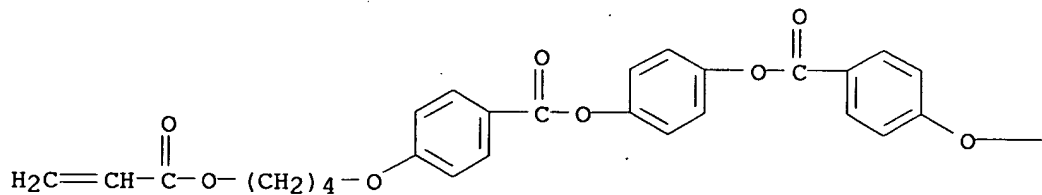
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 1,4-phenylene ester, mixt. with 1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

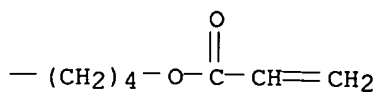
CM 1

CRN 132694-65-6

CMF C34 H34 O10

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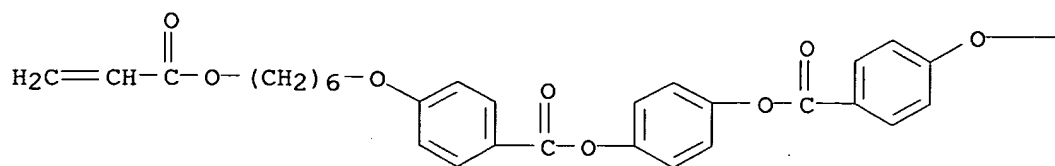


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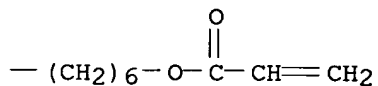
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CMF C38 H42 O10

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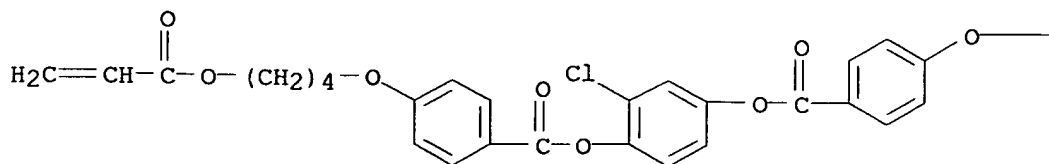
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester, mixt. with 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] and 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

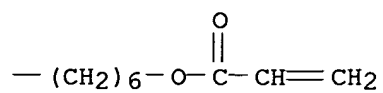
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CMF C36 H37 Cl O10

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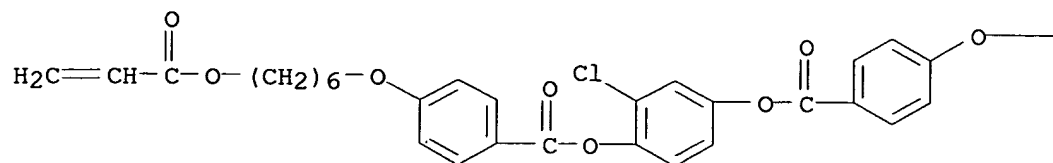


CM 2

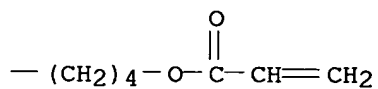
CRN 172257-74-8

CMF C36 H37 Cl O10

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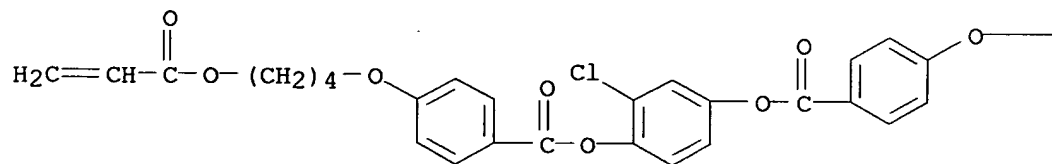


CM 3

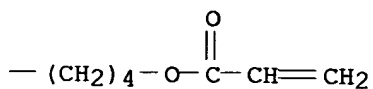
CRN 172257-73-7

CMF C34 H33 Cl O10

PAGE 1-A



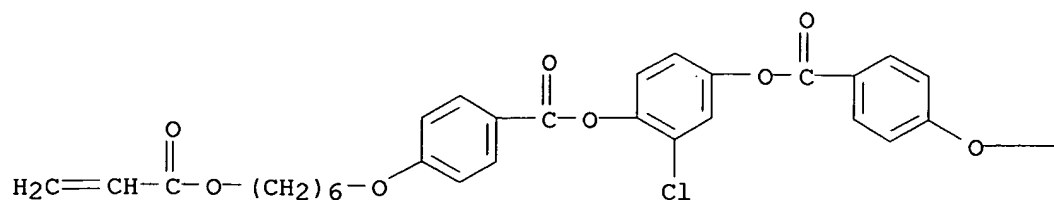
PAGE 1-B



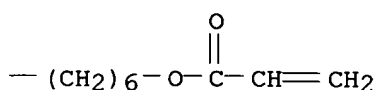
CM 4

CRN 150809-90-8
CMF C38 H41 Cl O10

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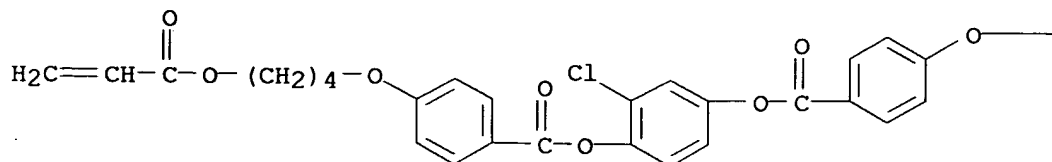
RN 172257-83-9 CAPLUS

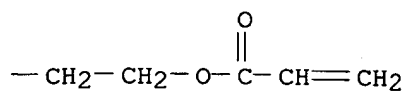
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester, mixt. with 3-chloro-4-[[4-[2-[(1-oxopropenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate] and 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

CRN 172257-82-8
CMF C32 H29 Cl O10

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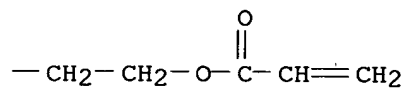
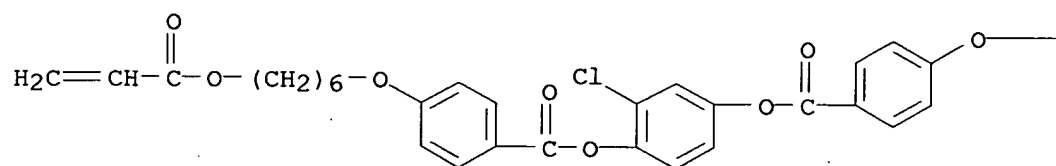




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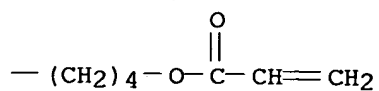
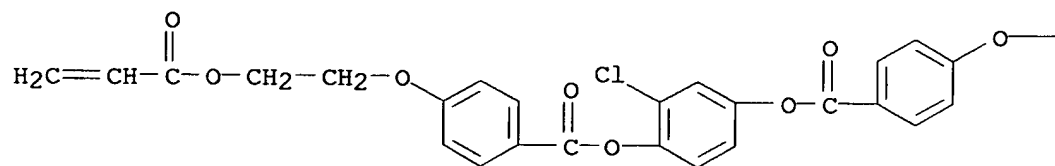
CMF C34 H33 Cl O10



CM 3

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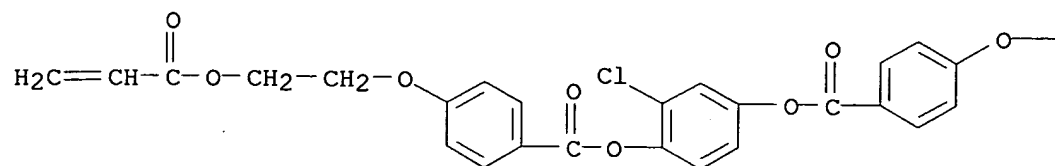
CMF C32 H29 Cl O10



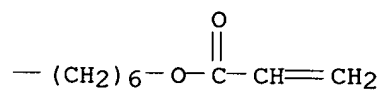
CM 4

CRN 172257-79-3
CMF C34 H33 Cl O10

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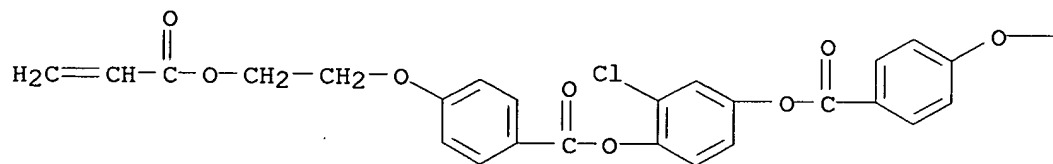
PAGE 1-B



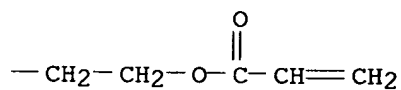
CM 5

CRN 172257-78-2
CMF C30 H25 Cl O10

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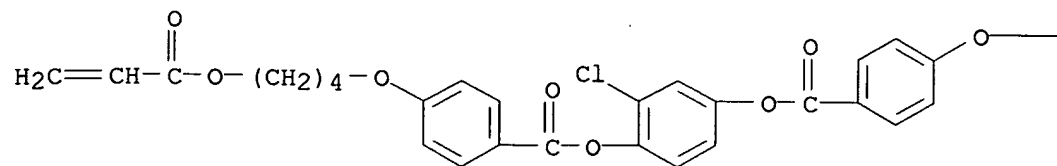
PAGE 1-B



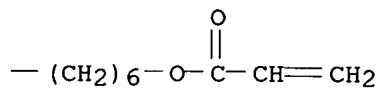
CM 6

CRN 172257-75-9
CMF C36 H37 Cl O10

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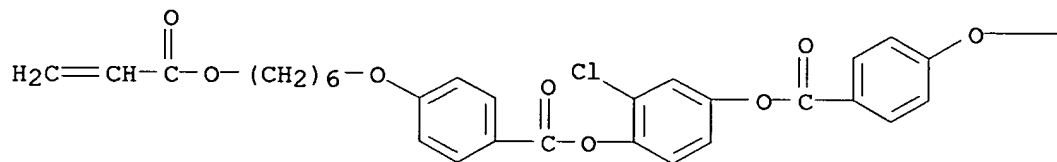
PAGE 1-B



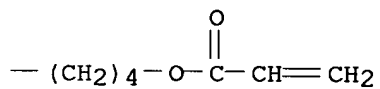
CM 7

CRN 172257-74-8
CMF C36 H37 Cl O10

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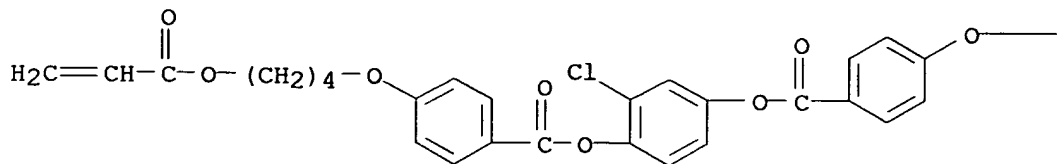
PAGE 1-B

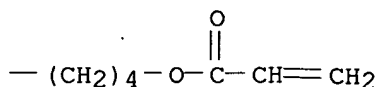


CM 8

CRN 172257-73-7
CMF C34 H33 Cl O10

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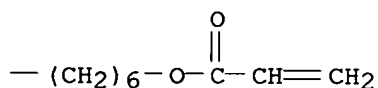
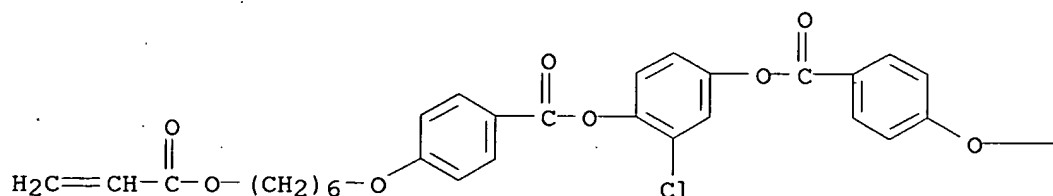




CM 9

CRN 150809-90-8

CMF C38 H41 Cl O10



RN 172257-86-2 CAPLUS

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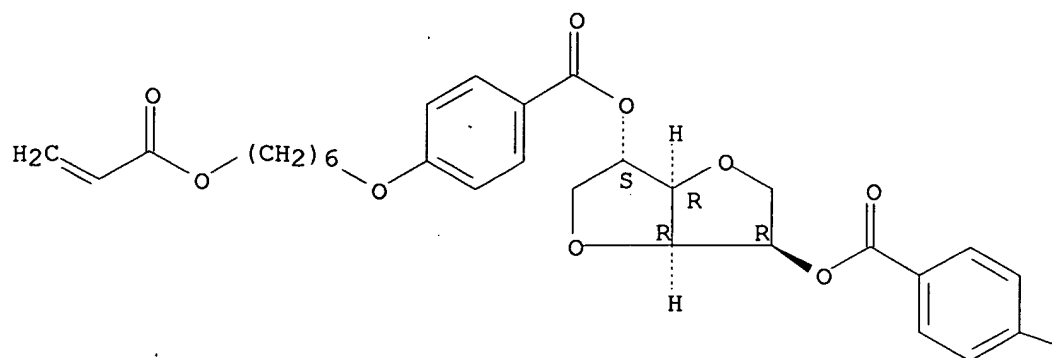
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CRN 172257-85-1

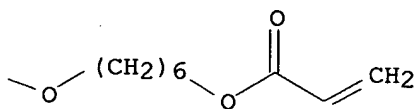
CMF C38 H46 O12

Absolute stereochemistry.

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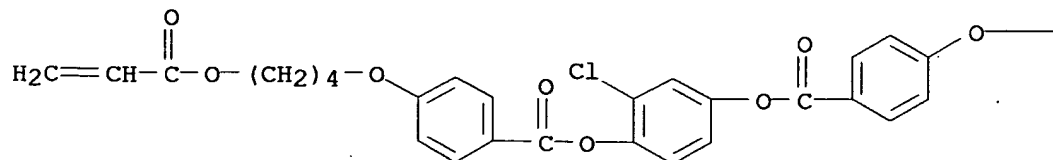


CM 2

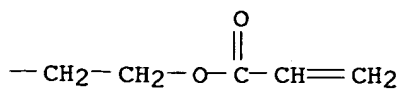
CRN 172257-82-8

CMF C32 H29 Cl O10

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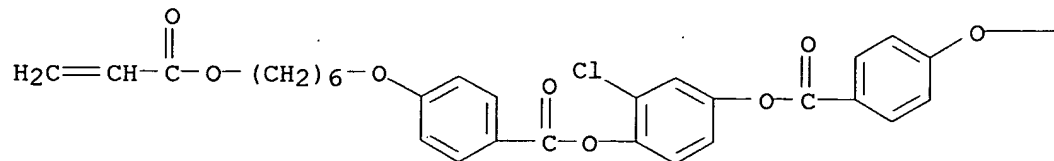
PAGE 1-B



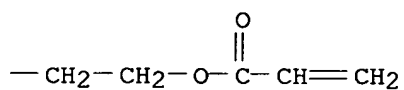
CM 3

CRN 172257-81-7
CMF C34 H33 Cl O10

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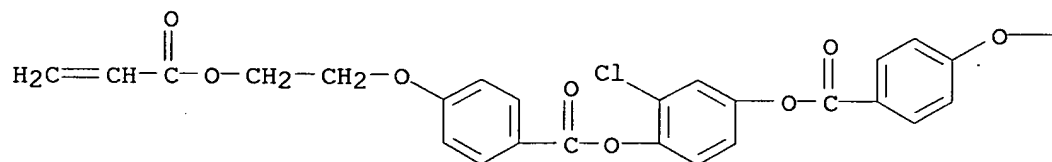
PAGE 1-B



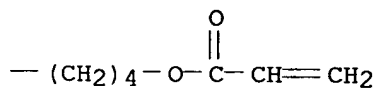
CM 4

CRN 172257-80-6
CMF C32 H29 Cl O10

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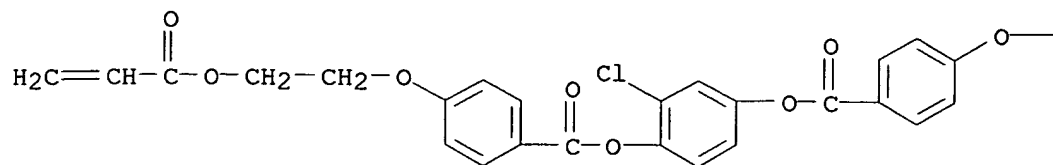
PAGE 1-B



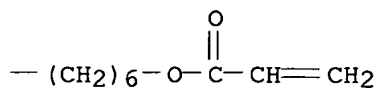
CM 5

CRN 172257-79-3
CMF C34 H33 Cl O10

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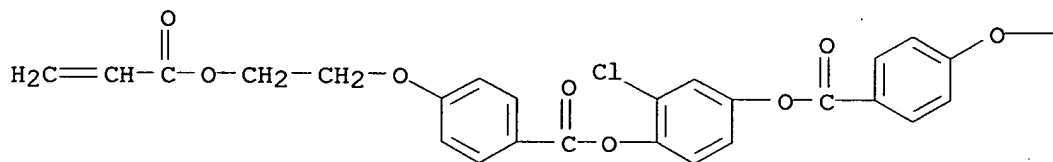


CM 6

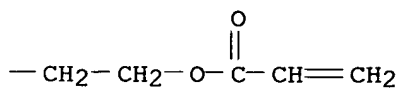
CRN 172257-78-2

CMF C30 H25 Cl O10

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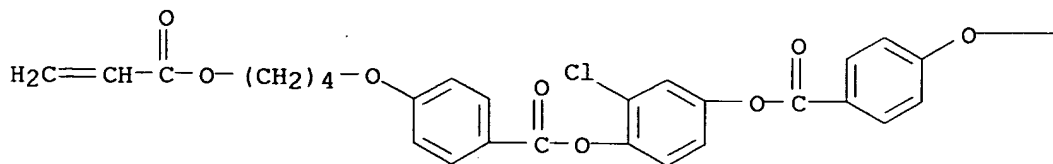


CM 7

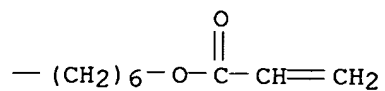
CRN 172257-75-9

CMF C36 H37 Cl O10

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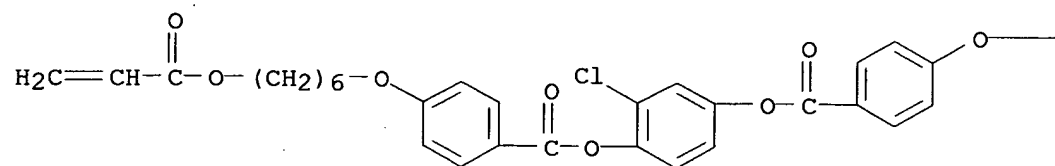


CM 8

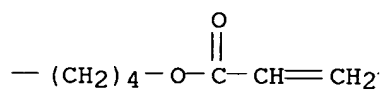
CRN 172257-74-8

CMF C36 H37 Cl O10

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PAGE 1-B

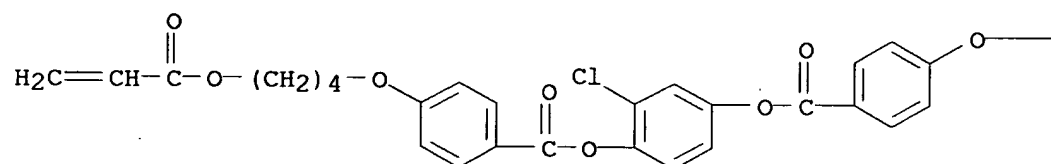


CM 9

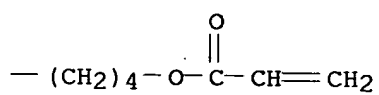
CRN 172257-73-7

CMF C34 H33 Cl O10

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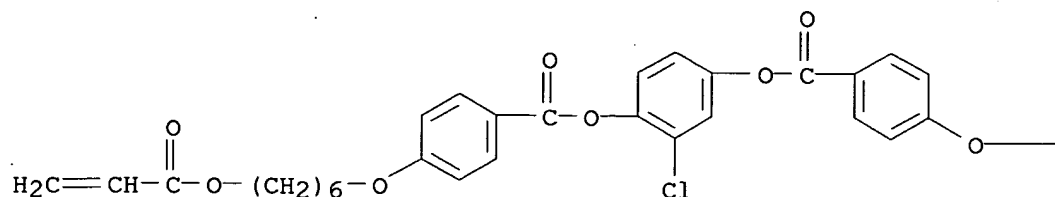
PAGE 1-B



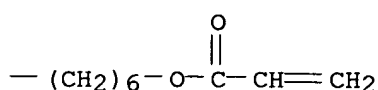
CM 10

CRN 150809-90-8
CMF C38 H41 Cl O10

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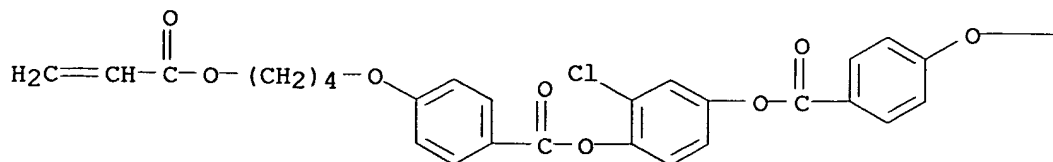


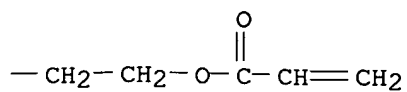
RN 172257-87-3 CAPLUS
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-1,4-phenylene ester, mixt. with 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and ethenylbenzene (9CI) (CA INDEX NAME)

CM 1

CRN 172257-82-8
CMF C32 H29 Cl O10

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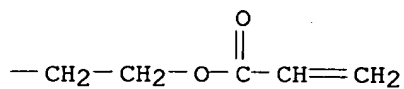
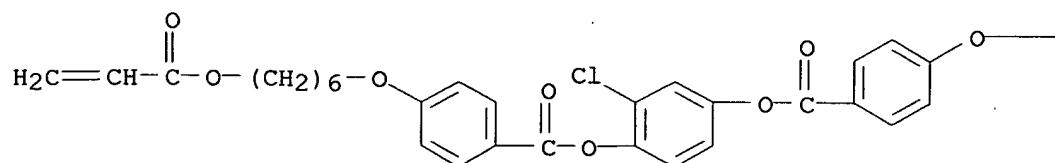




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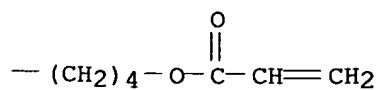
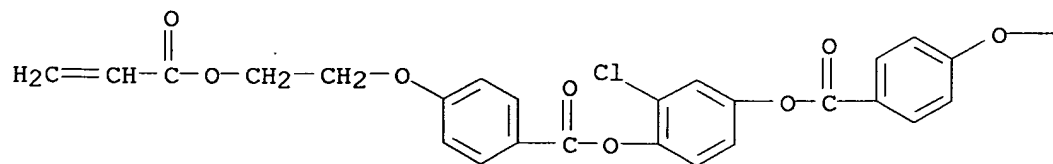
CMF C34 H33 Cl O10



CM 3

CRN 172257-80-6

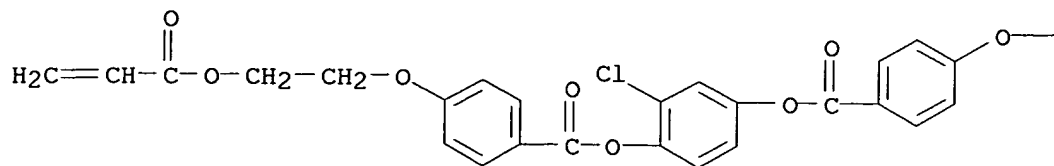
CMF C32 H29 Cl O10



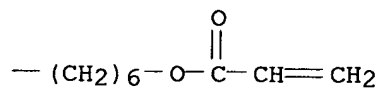
CM 4

CRN 172257-79-3
CMF C34 H33 Cl O10

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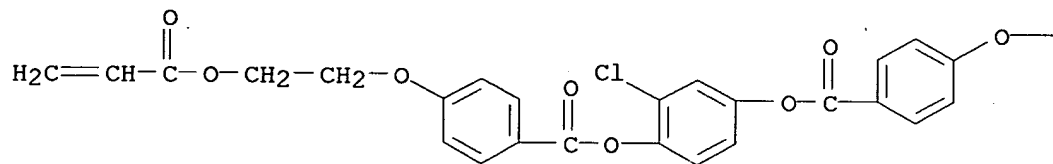
PAGE 1-B



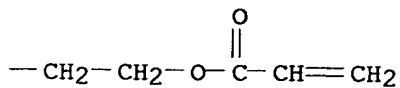
CM 5

CRN 172257-78-2
CMF C30 H25 Cl O10

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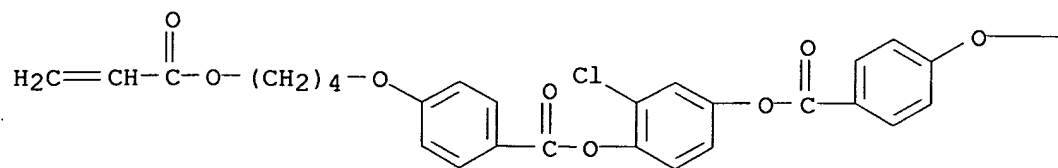
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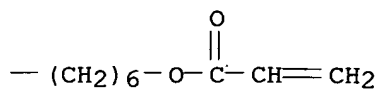
CM 6

CRN 172257-75-9
CMF C36 H37 Cl O10

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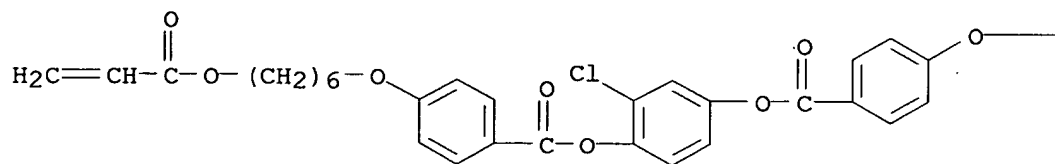
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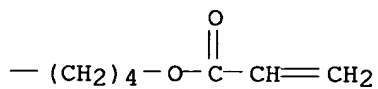
CM 7

CRN 172257-74-8
CMF C36 H37 Cl O10

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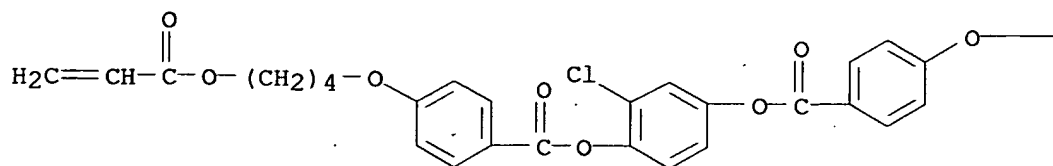
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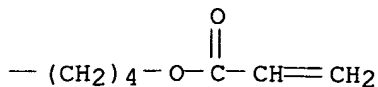


CM 8

CRN 172257-73-7
CMF C34 H33 Cl O10

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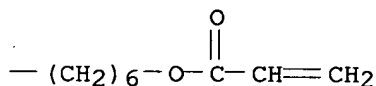
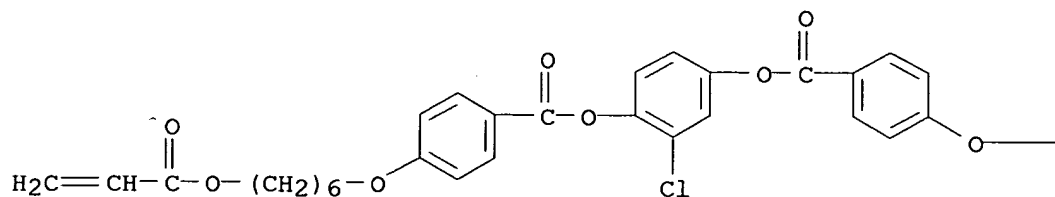




CM 9

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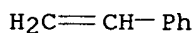
CMF C38 H41 Cl O10



CM 10

CRN 100-42-5

CMF C8 H8



RN 172257-96-4 CAPLUS

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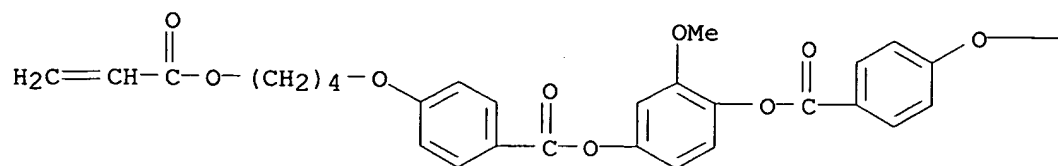
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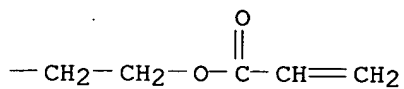
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CMF C33 H32 O11

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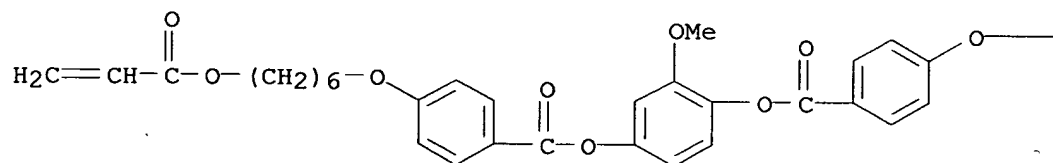


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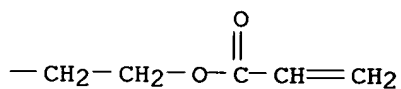
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PAGE 1-B

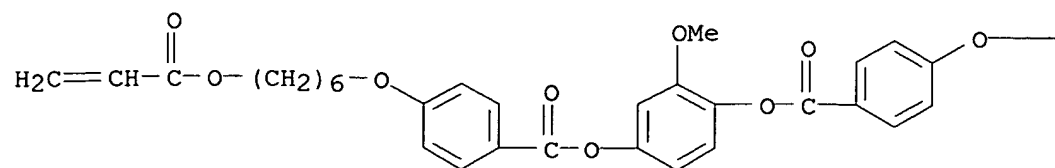


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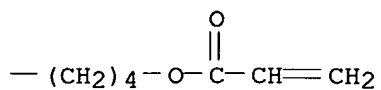
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PAGE 1-B

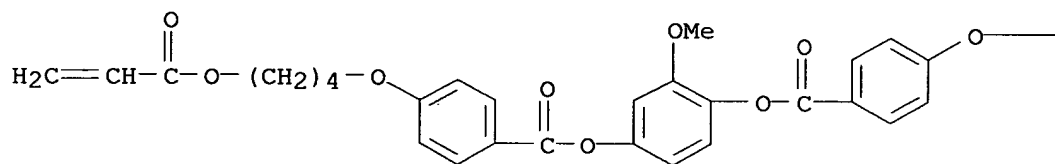


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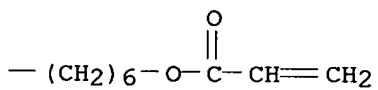
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PAGE 1-B

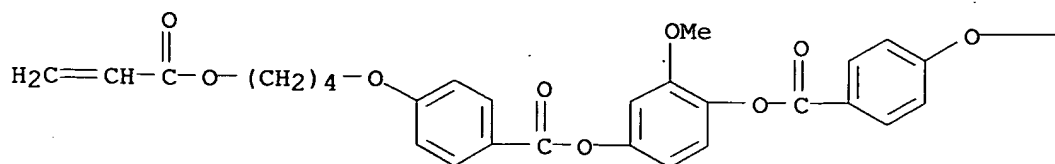


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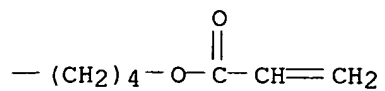
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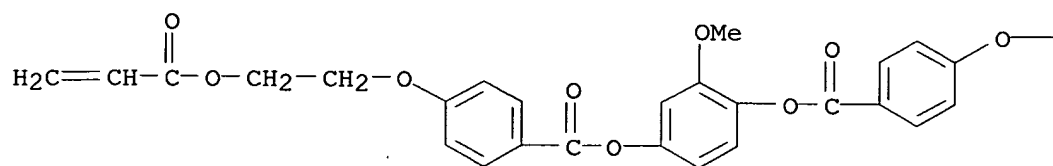


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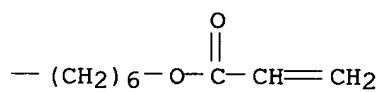
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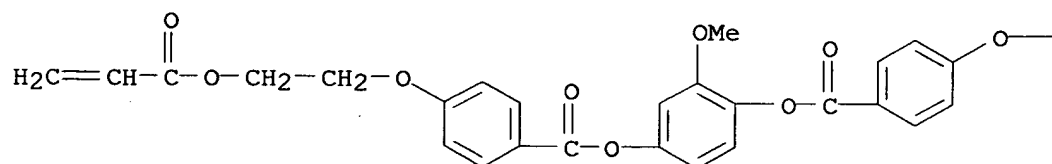


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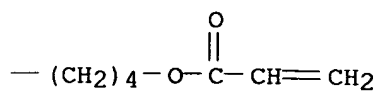
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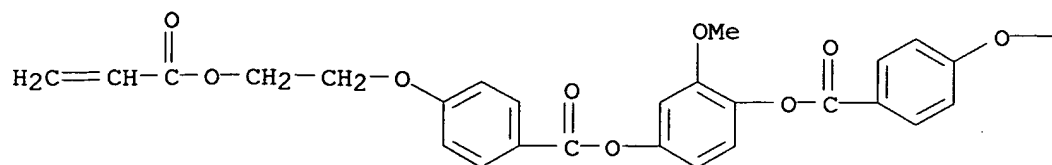
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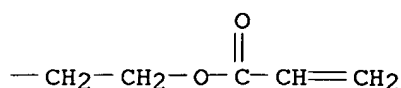
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CMF C31 H28 O11

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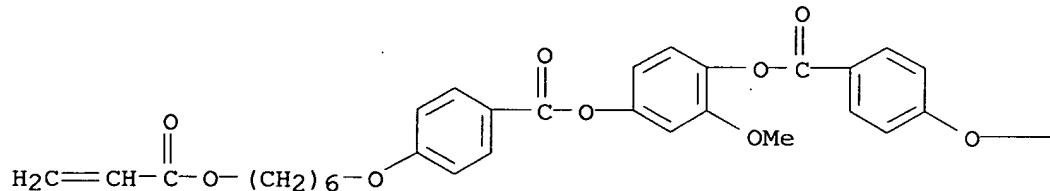
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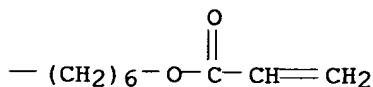
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CRN 151518-96-6
CMF C39 H44 O11

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PAGE 1-B



RN 172257-97-5 CAPLUS
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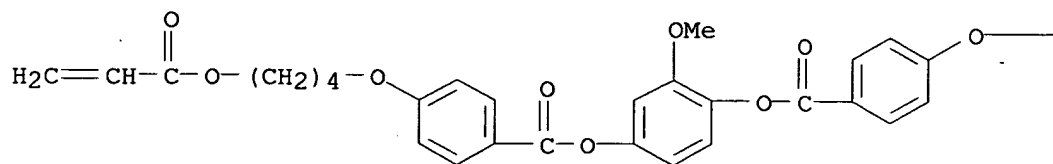
propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-methoxy-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-methoxy-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-methoxy-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate] and 2-methoxy-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

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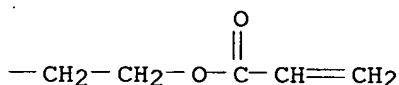
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CMF C33 H32 O11

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PAGE 1-B

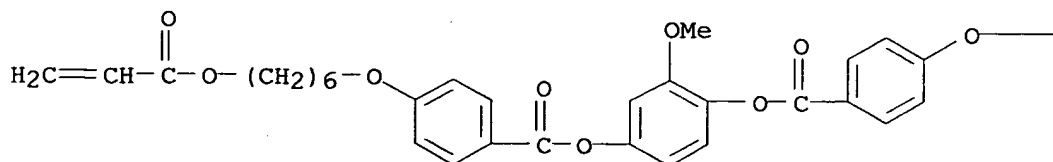


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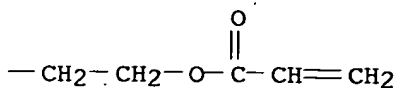
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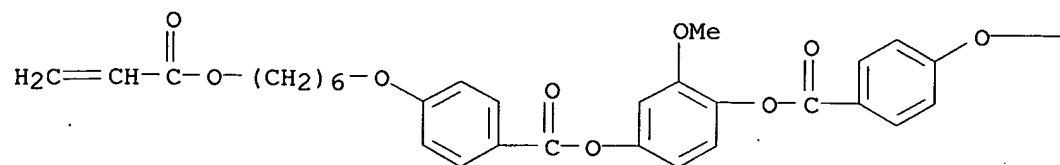
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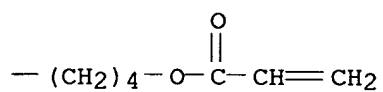
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CMF C37 H40 O11

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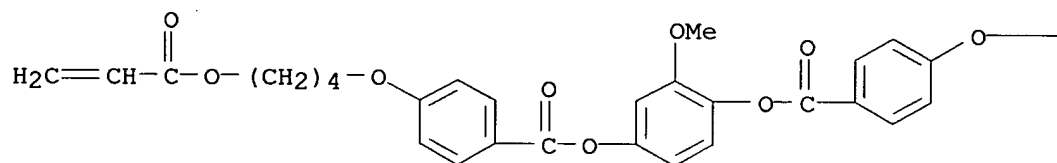
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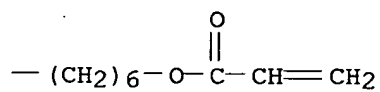
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CMF C37 H40 O11

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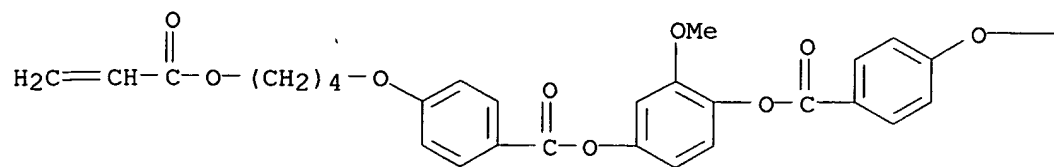
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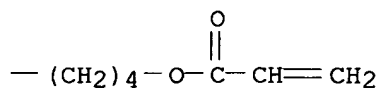
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CMF C35 H36 O11

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PAGE 1-B

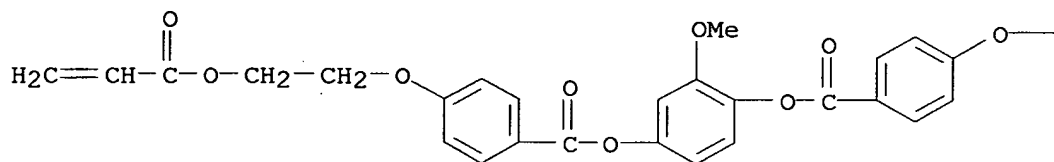


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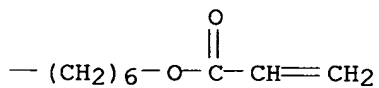
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CMF C35 H36 O11

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PAGE 1-B

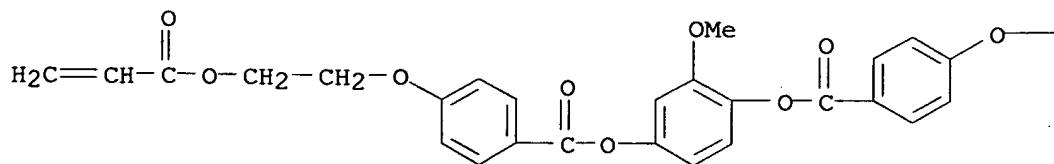


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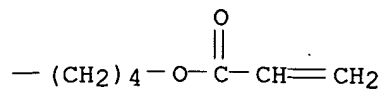
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CMF C33 H32 O11

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PAGE 1-B

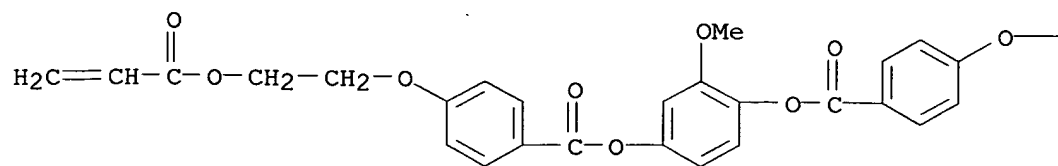


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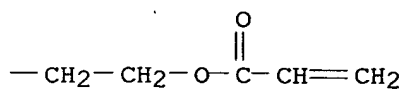
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CMF C31 H28 O11

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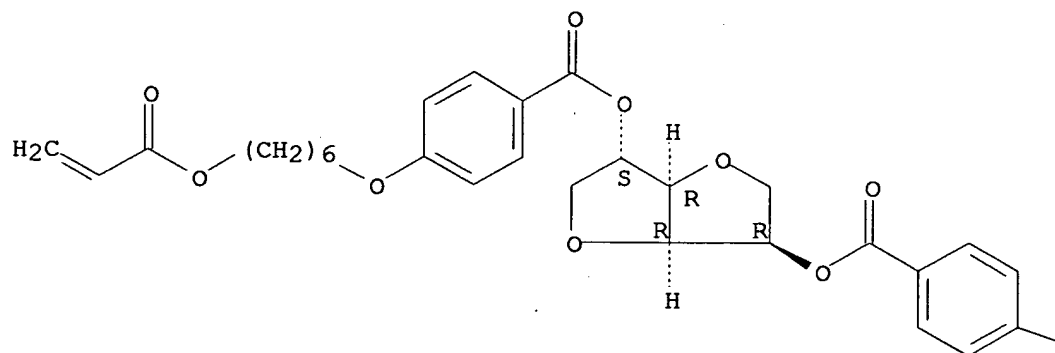
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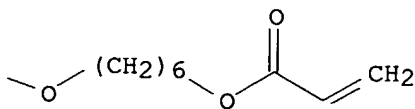
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CMF C38 H46 O12

Absolute stereochemistry.

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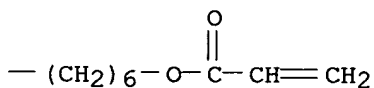
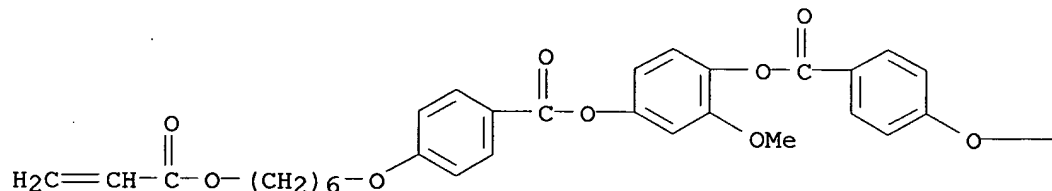




CM 10

CRN 151518-96-6

CMF C39 H44 O11



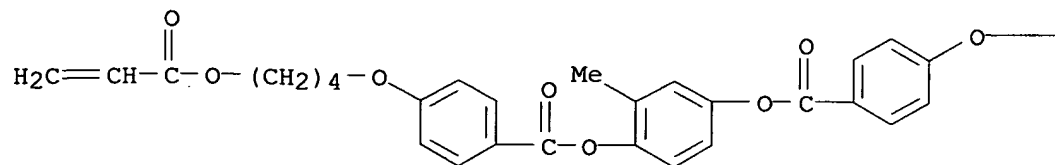
RN 172258-13-8 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl ester, mixt. with 3-methyl-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-methyl-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-methyl-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-methyl-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate] and 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

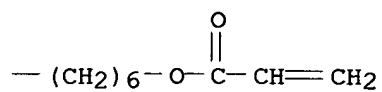
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CMF C37 H40 O10

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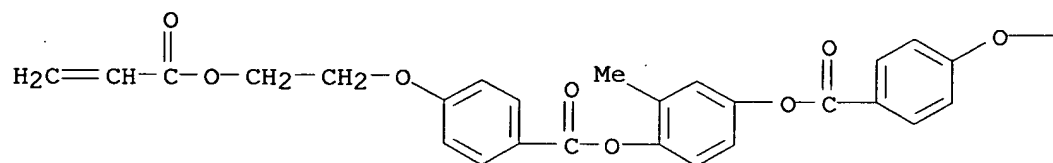
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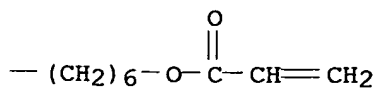
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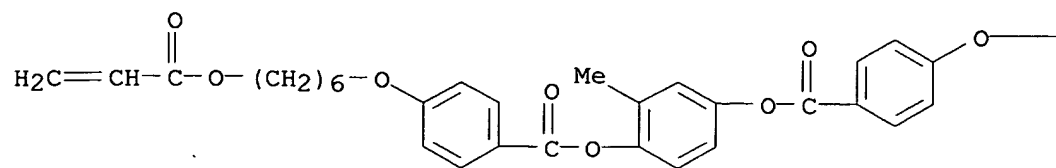
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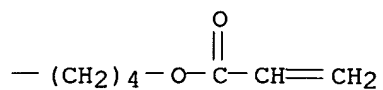
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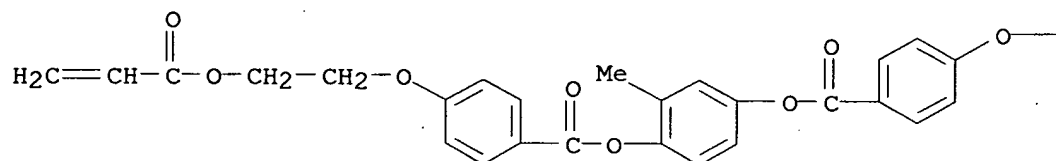
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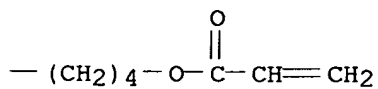
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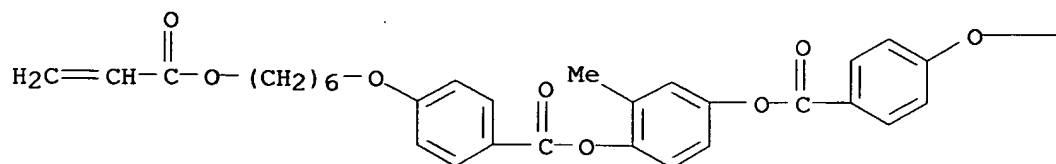
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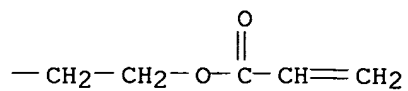
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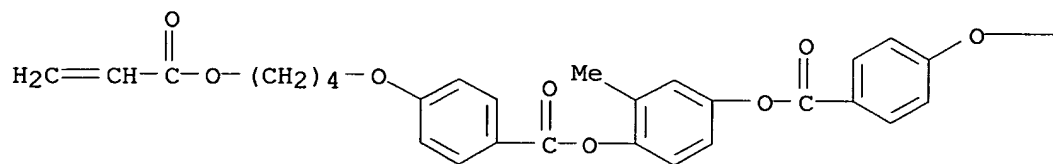


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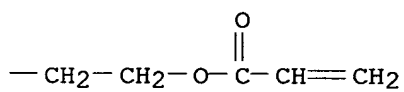
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CMF C33 H32 O10

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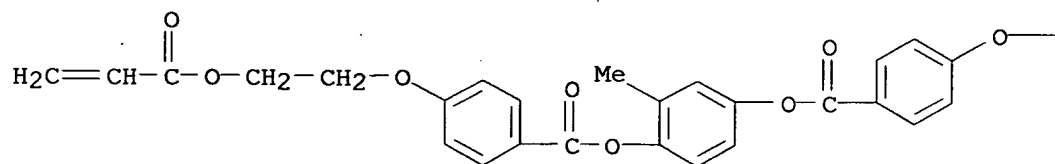


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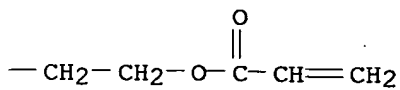
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CMF C31 H28 O10

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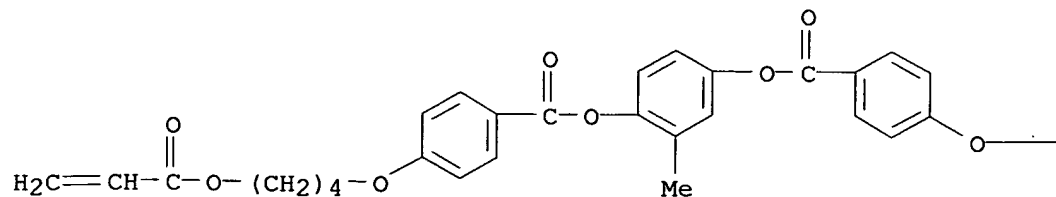
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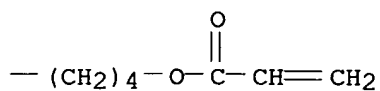
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CRN 132900-75-5
CMF C35 H36 O10

PAGE 1-A



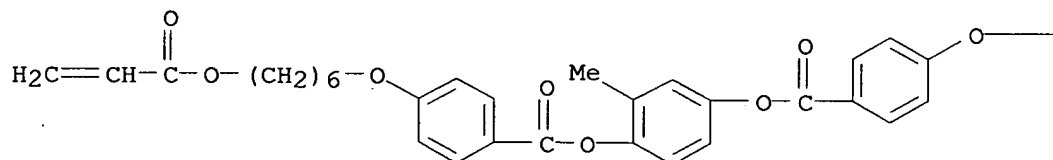
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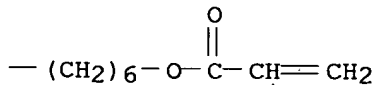
CM 9

CRN 125248-71-7
CMF C39 H44 O10

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RN 172258-14-9 CAPLUS
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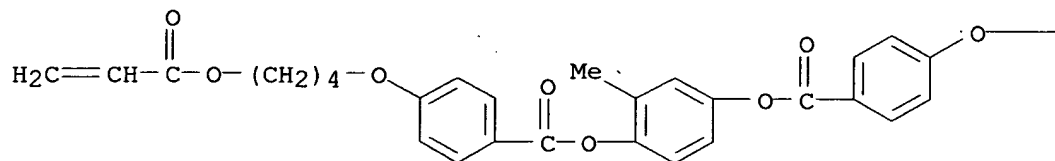
propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-methoxy-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-methyl-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-methyl-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate] and 2-methyl-1,4-phenylenebis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

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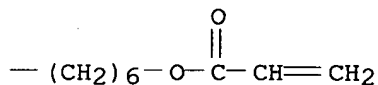
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CMF C37 H40 O10

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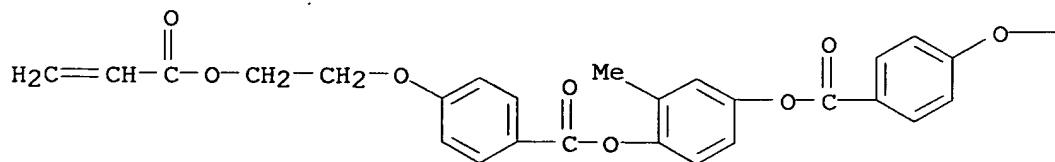


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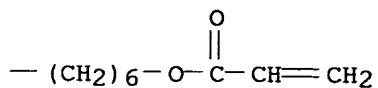
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CMF C35 H36 O10

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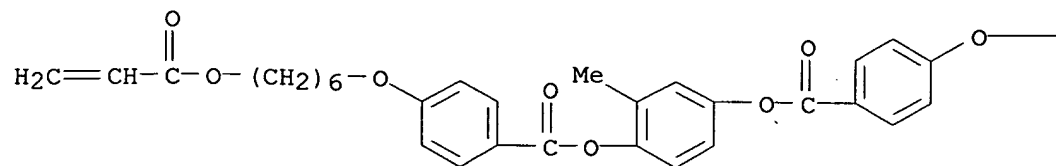
PAGE 1-B



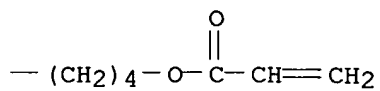
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CRN 172258-10-5
CMF C37 H40 O10

PAGE 1-A



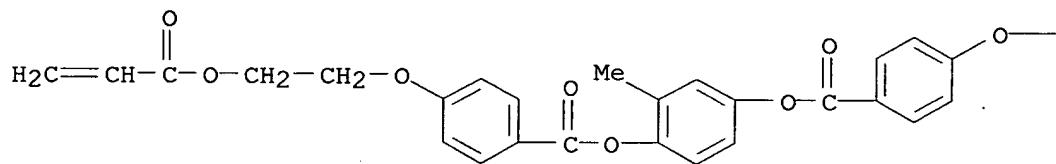
PAGE 1-B



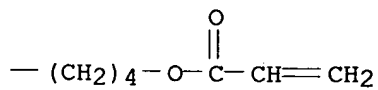
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CRN 172258-09-2
CMF C33 H32 O10

PAGE 1-A



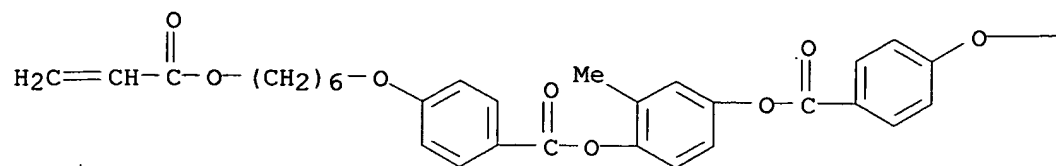
PAGE 1-B



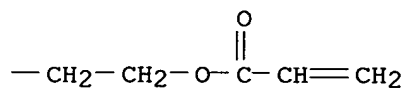
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CRN 172258-08-1
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PAGE 1-A



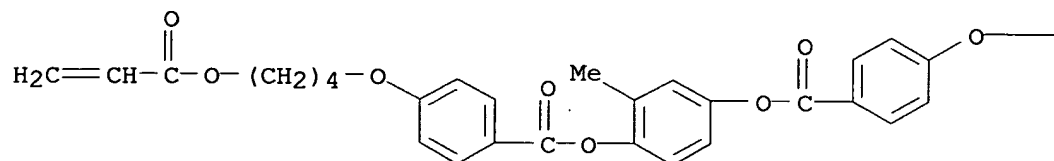
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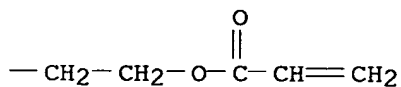
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CRN 172258-07-0
CMF C33 H32 O10

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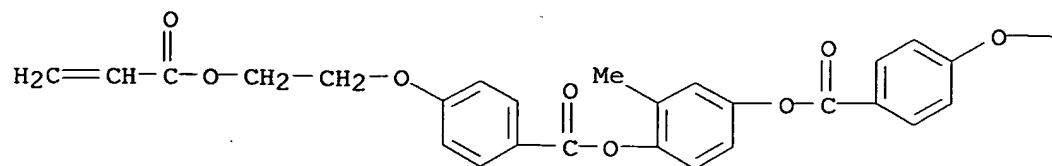
PAGE 1-B

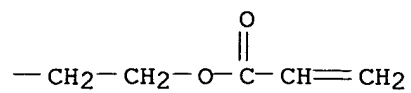


CM 7

CRN 172258-06-9
CMF C31 H28 O10

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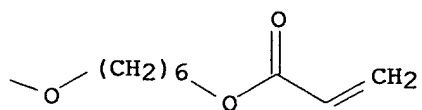
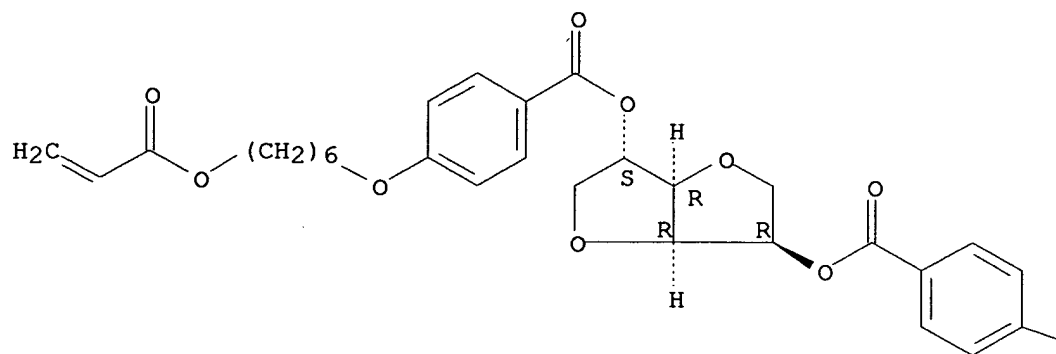


CM 8

CRN 172257-85-1

CMF C38 H46 O12

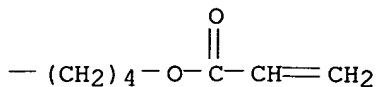
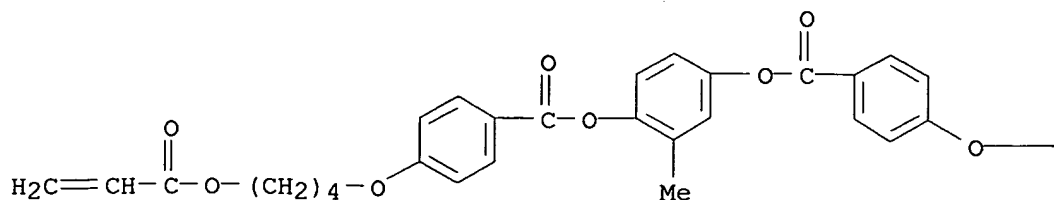
Absolute stereochemistry.



CM 9

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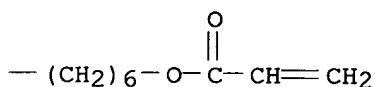
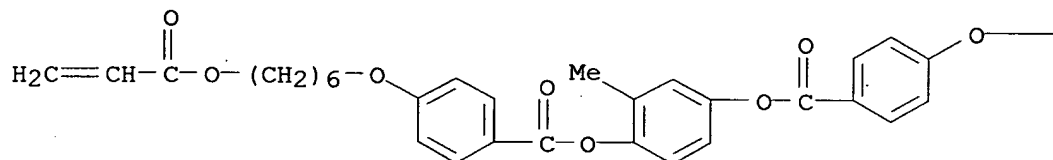
CMF C35 H36 O10



CM 10

CRN 125248-71-7

CMF C39 H44 O10



RN 172258-19-4 CAPLUS

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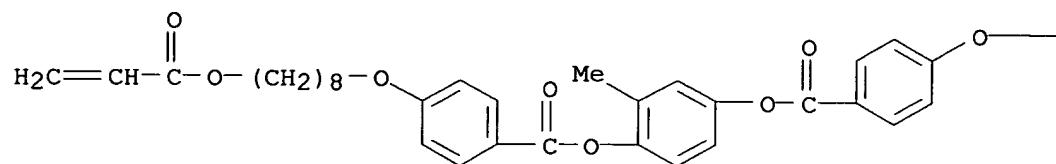
] (9CI) (CA INDEX NAME)

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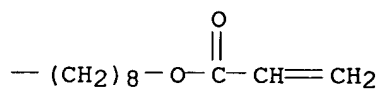
CRN 172258-18-3

CMF C43 H52 O10

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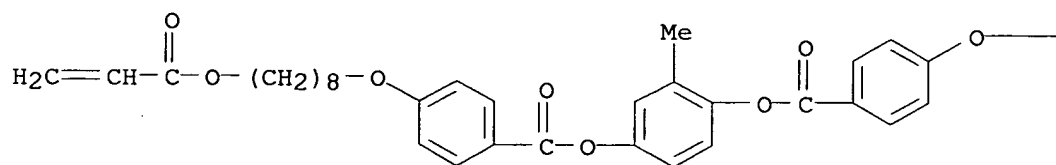


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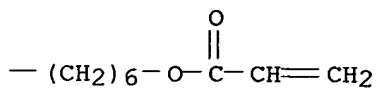
CRN 172258-17-2

CMF C41 H48 O10

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PAGE 1-B

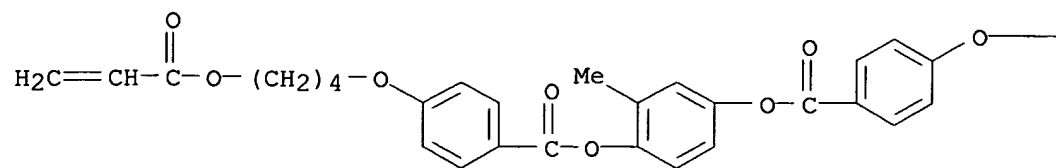


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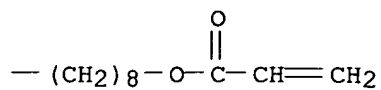
CRN 172258-16-1

CMF C39 H44 O10

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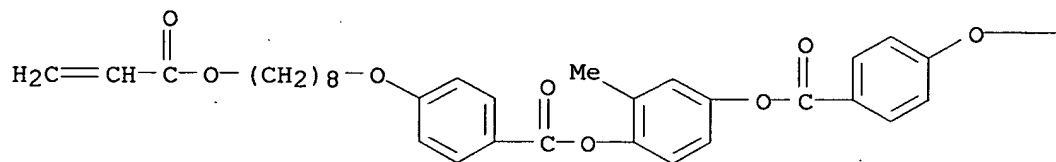
PAGE 1-B



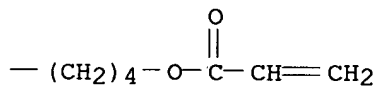
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CMF C39 H44 O10

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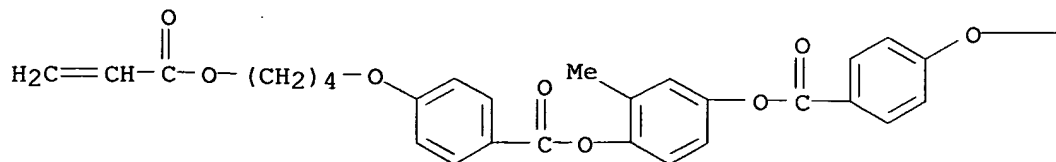
PAGE 1-B



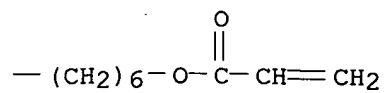
CM 5

CRN 172258-12-7
CMF C37 H40 O10

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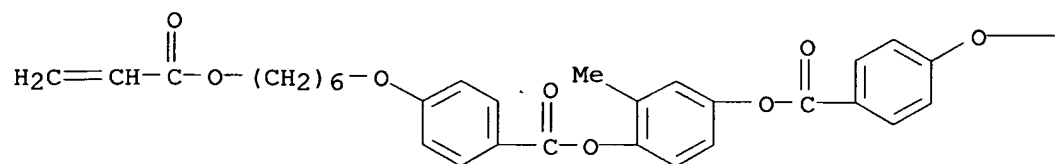


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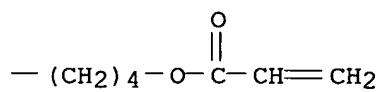
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CMF C37 H40 O10

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PAGE 1-B

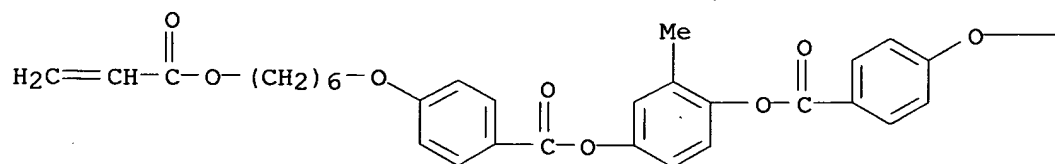


CM 7

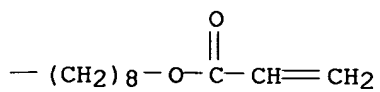
CRN 172257-69-1

CMF C41 H48 O10

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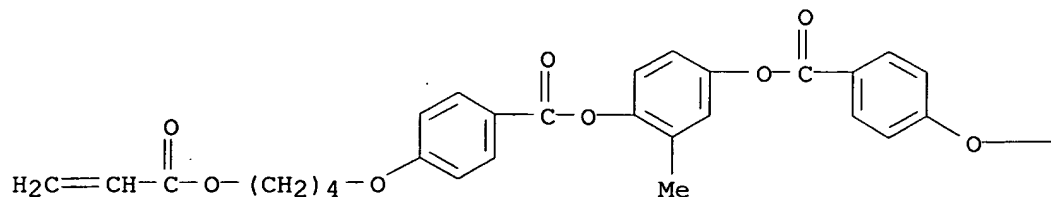
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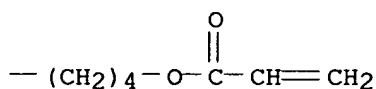
CM 8

CRN 132900-75-5
CMF C35 H36 O10

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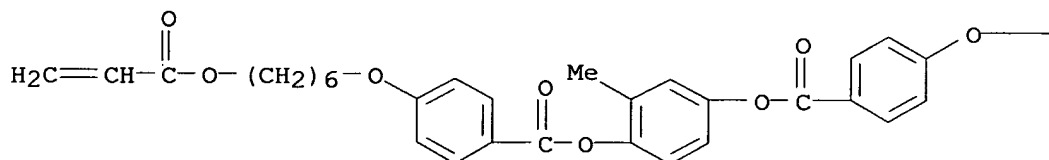
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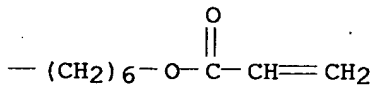
CM 9

CRN 125248-71-7
CMF C39 H44 O10

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RN 172258-20-7 CAPLUS

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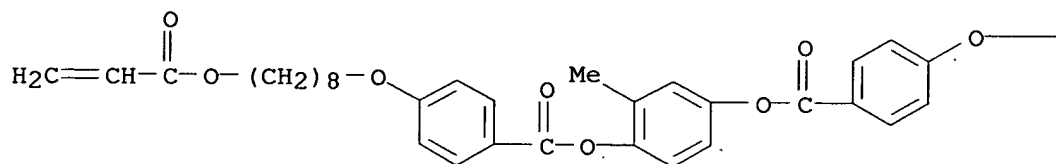
propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate, 3-methyl-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate, 2-methyl-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-methyl-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and 2-methyl-1,4-phenylene bis[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoate] (9CI) (CA INDEX NAME)

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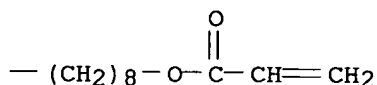
CRN 172258-18-3

CMF C43 H52 O10

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PAGE 1-B

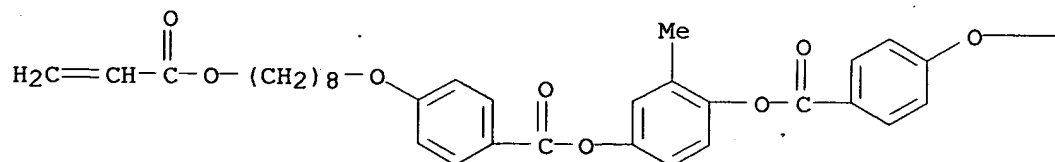


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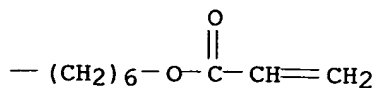
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CMF C41 H48 O10

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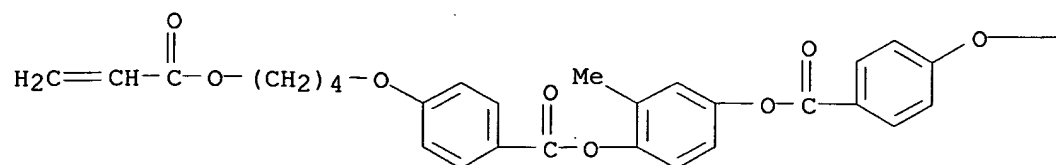
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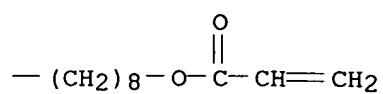
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CRN 172258-16-1
CMF C39 H44 O10

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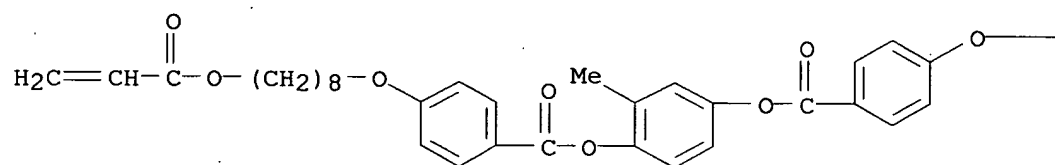
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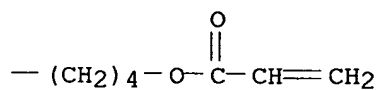
CM 4

CRN 172258-15-0
CMF C39 H44 O10

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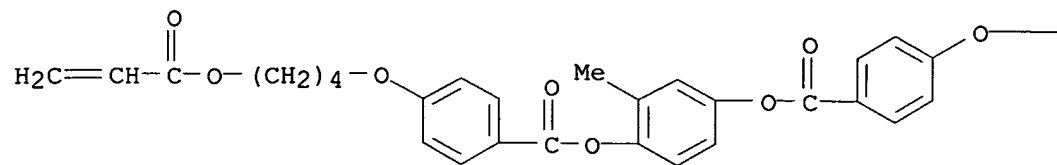
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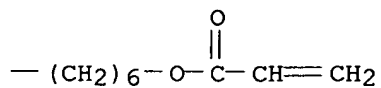
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CRN 172258-12-7
CMF C37 H40 O10

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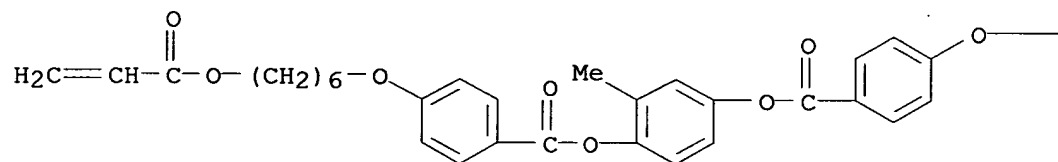


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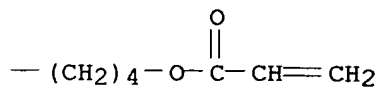
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CMF C37 H40 O10

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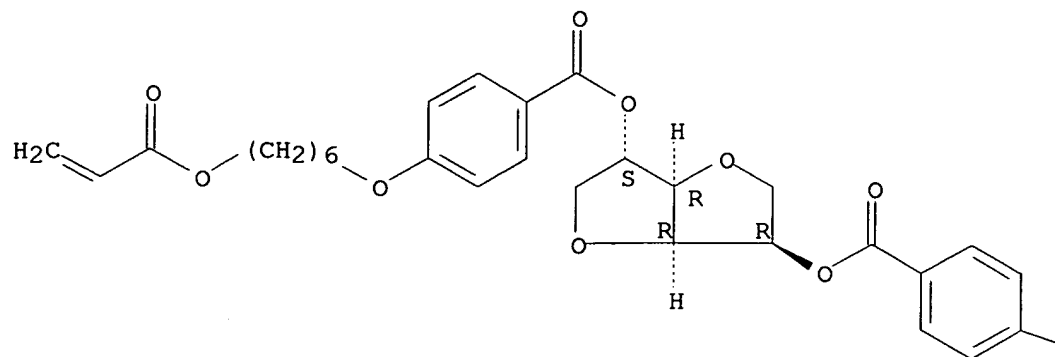
CM 7

CRN 172257-85-1

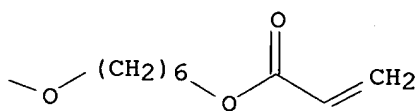
CMF C38 H46 O12

Absolute stereochemistry.

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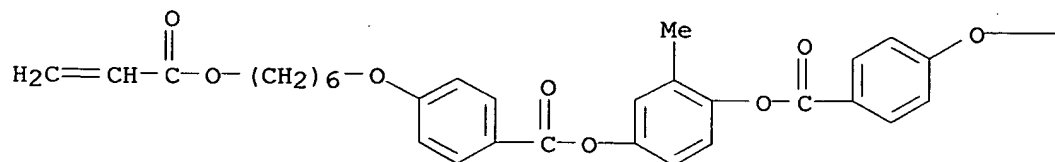


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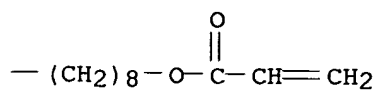
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CMF C41 H48 O10

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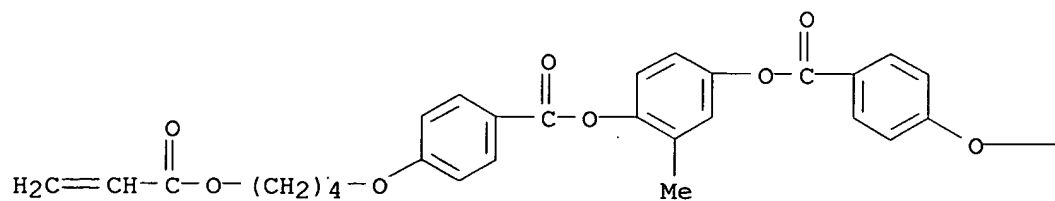


CM 9

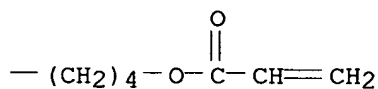
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CMF C35 H36 O10

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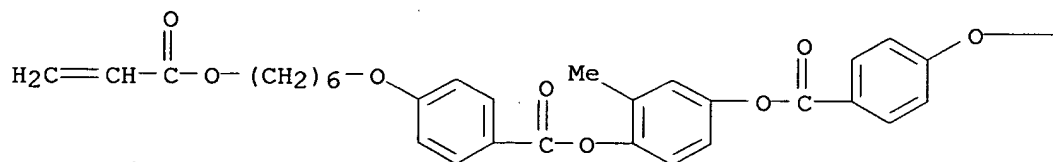


CM 10

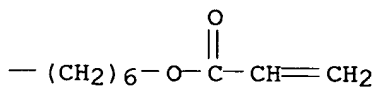
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CMF C39 H44 O10

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RN 172258-26-3 CAPLUS

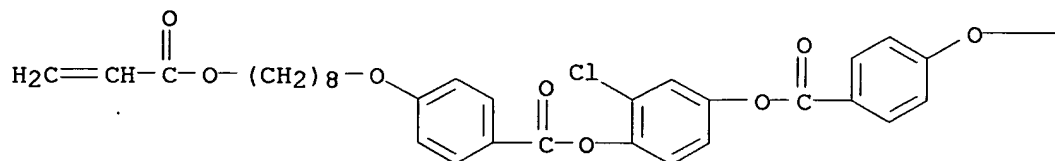
CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl ester, mixt. with 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[6-[(1-oxo-2-

propenyl)oxy]hexyl]oxy]benzoate, 3-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and 2-chloro-1,4-phenylene bis[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoate] (9CI) (CA INDEX NAME)

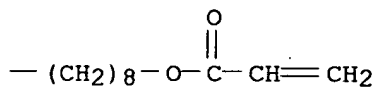
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CRN 172258-25-2
CMF C42 H49 Cl O10

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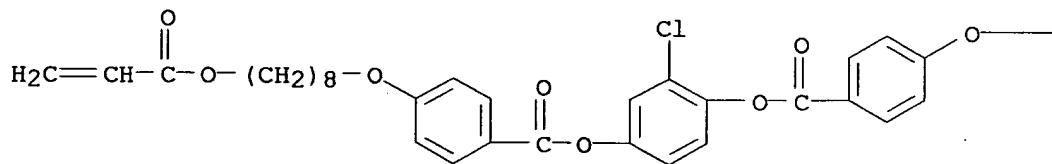
PAGE 1-B



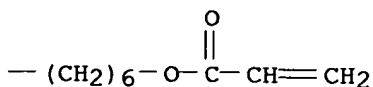
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CMF C40 H45 Cl O10

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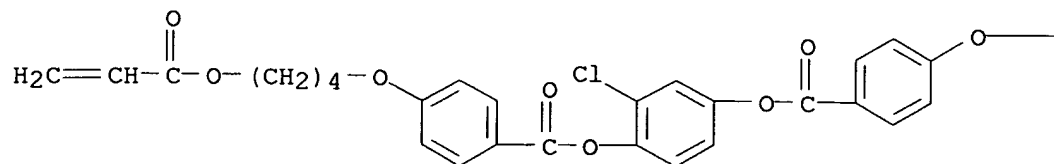
PAGE 1-B



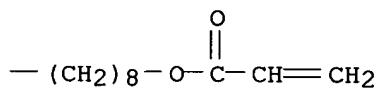
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CRN 172258-23-0
CMF C38 H41 Cl O10

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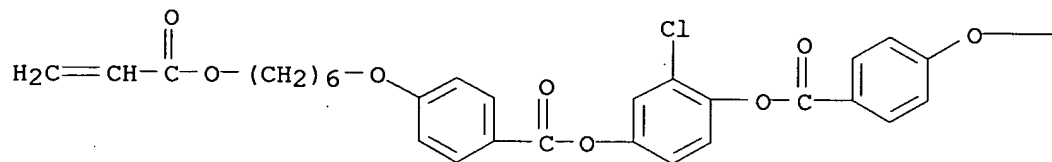
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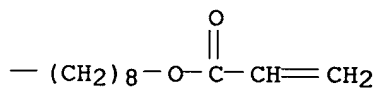
CM 4

CRN 172258-22-9
CMF C40 H45 Cl O10

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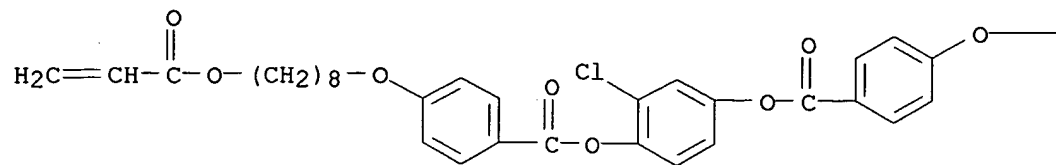
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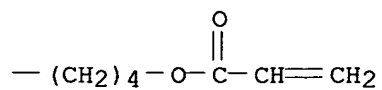
CM 5

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CMF C38 H41 Cl O10

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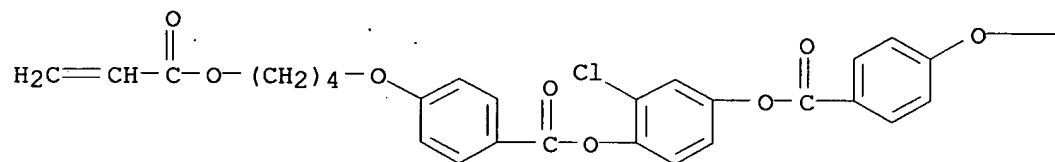
PAGE 1-B



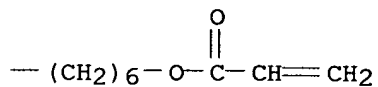
CM 6

CRN 172257-75-9
CMF C36 H37 Cl O10

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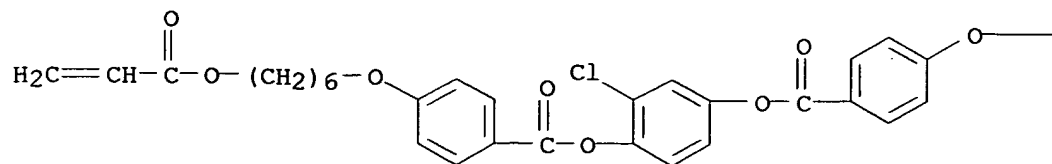
PAGE 1-B



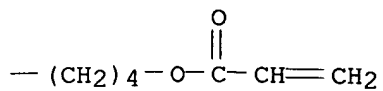
CM 7

CRN 172257-74-8
CMF C36 H37 Cl O10

PAGE 1-A



PAGE 1-B

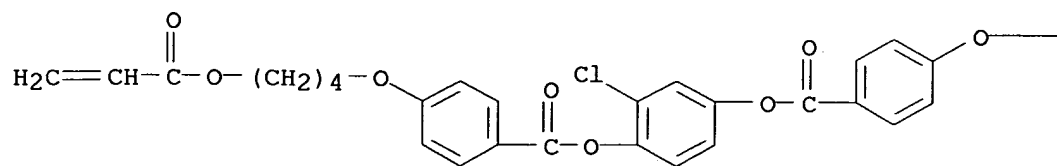


CM 8

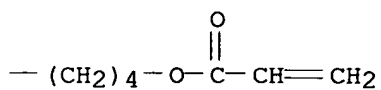
CRN 172257-73-7

CMF C34 H33 Cl O10

PAGE 1-A



PAGE 1-B

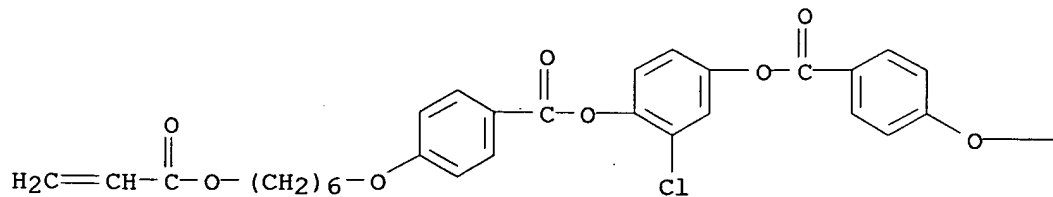


CM 9

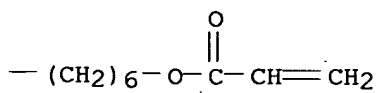
CRN 150809-90-8

CMF C38 H41 Cl O10

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RN 172258-27-4 CAPLUS

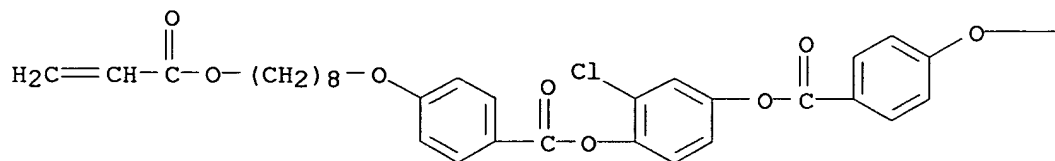
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate], mixt. with 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate, 3-chloro-4-[[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoyl]oxy]phenyl 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate, 2-chloro-1,4-phenylene bis[4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate and 2-chloro-1,4-phenylene bis[4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

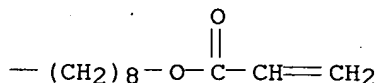
CRN 172258-25-2

CMF C42 H49 Cl O10

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PAGE 1-B

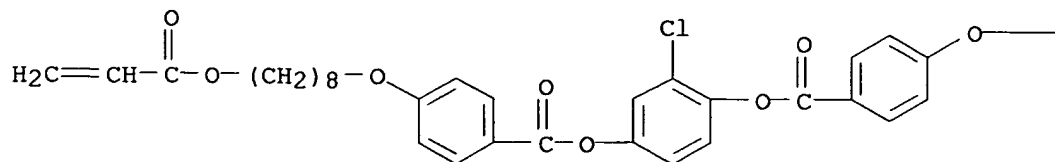


CM 2

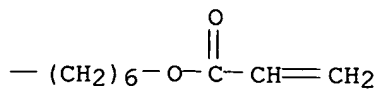
CRN 172258-24-1

CMF C40 H45 Cl O10

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PAGE 1-B

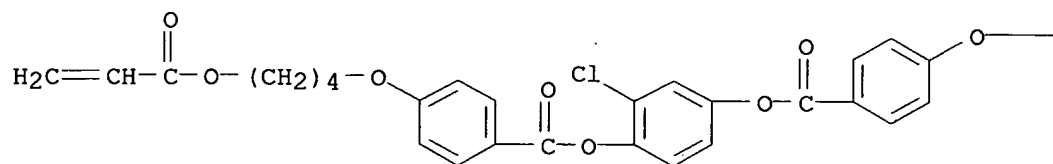


CM 3

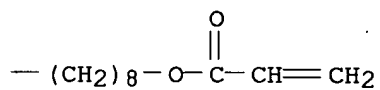
CRN 172258-23-0

CMF C38 H41 Cl O10

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PAGE 1-B

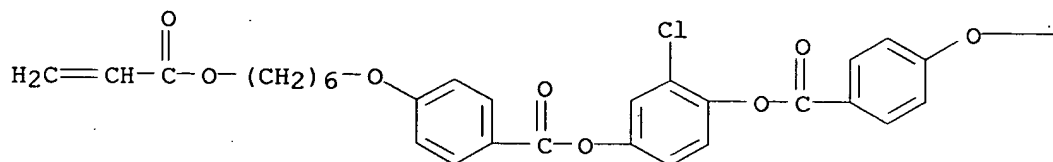


CM 4

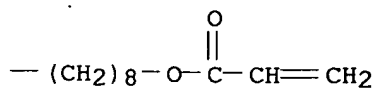
CRN 172258-22-9

CMF C40 H45 Cl O10

PAGE 1-A



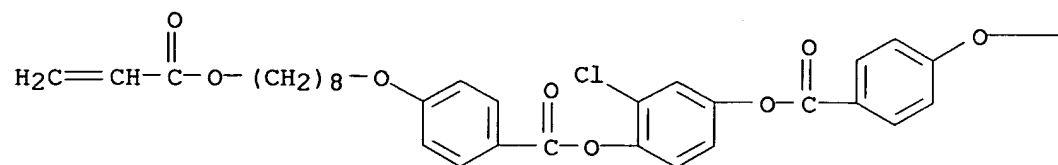
PAGE 1-B



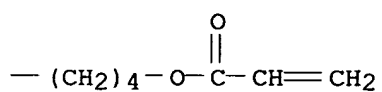
CM 5

CRN 172258-21-8
CMF C38 H41 Cl O10

PAGE 1-A



PAGE 1-B

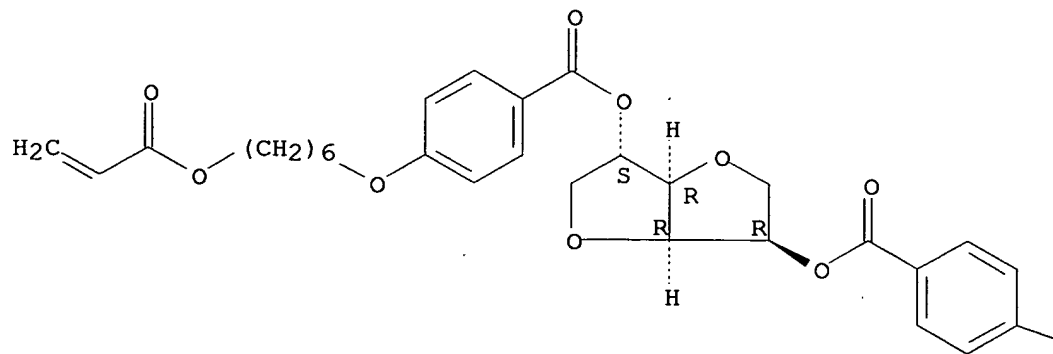


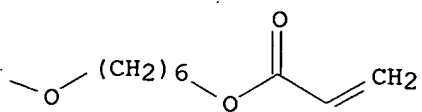
CM 6

CRN 172257-85-1
CMF C38 H46 O12

Absolute stereochemistry.

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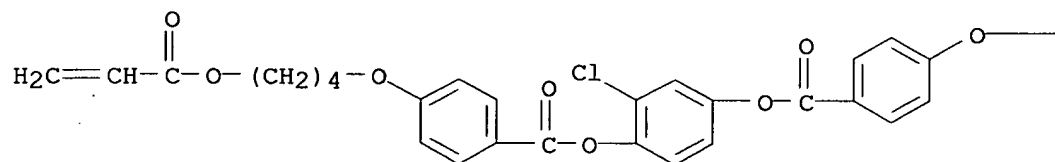




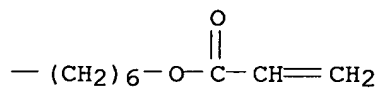
CM 7

CRN 172257-75-9
CMF C36 H37 Cl O10

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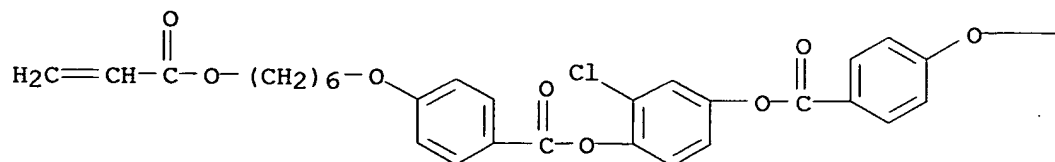
PAGE 1-B



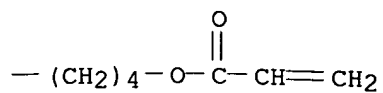
CM 8

CRN 172257-74-8
CMF C36 H37 Cl O10

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PAGE 1-B

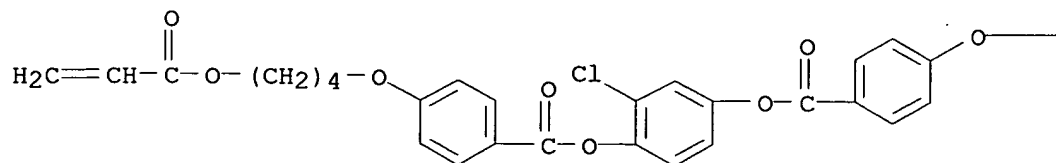


CM 9

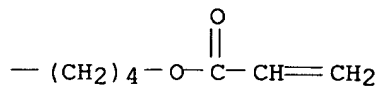
CRN 172257-73-7

CMF C34 H33 Cl O10

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PAGE 1-B

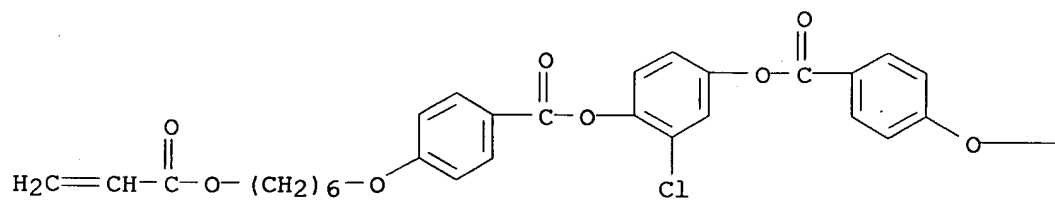


CM 10

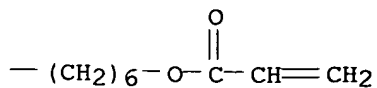
CRN 150809-90-8

CMF C38 H41 Cl O10

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RN 172339-26-3 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,

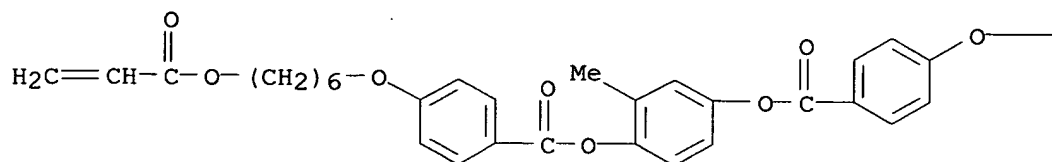
2-methyl-1,4-phenylene ester, mixt. with 1,4-phenylene
bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX
NAME)

CM 1

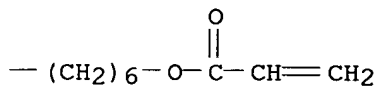
CRN 125248-71-7

CMF C39 H44 O10

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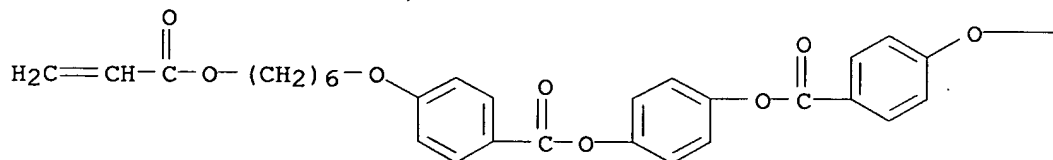


CM 2

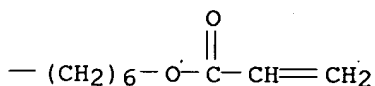
CRN 123864-17-5

CMF C38 H42 O10

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RN 172339-28-5 CAPLUS

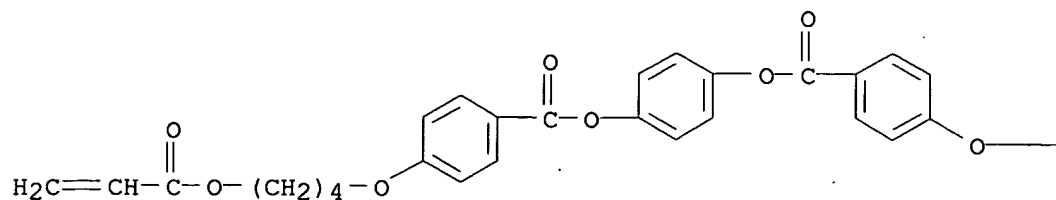
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4'-[2-[(1-oxo-2-propenyl)oxy]ethoxy][1,1'-biphenyl]-4-carboxylate], mixt. with 1,4-phenylene bis[4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] and 1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CRN 165186-75-4
CMF C42 H38 O12

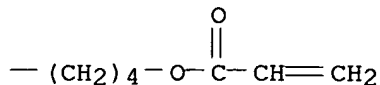
O=C(OCCOc1ccc(cc1)-c2ccc(cc2)C(=O)OC3COC(C3)COC(=O)c4ccc(cc4)-c5ccc(cc5)OCC
$$-\text{CH}_2-\text{O}-\overset{\text{O}}{\parallel}\text{C}-\text{CH}=\text{CH}_2$$

CRN 132694-65-6
CMF C34 H34 O10

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PAGE 1-B

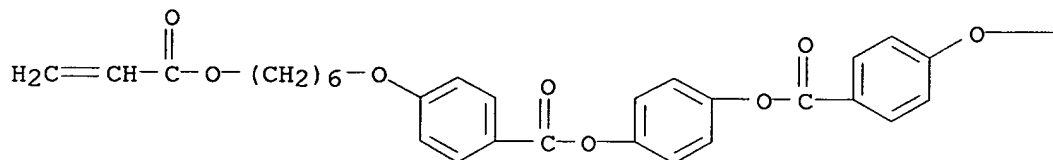


CM 3

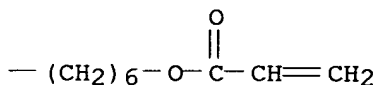
CRN 123864-17-5

CMF C38 H42 O10

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RN 172339-29-6 CAPLUS

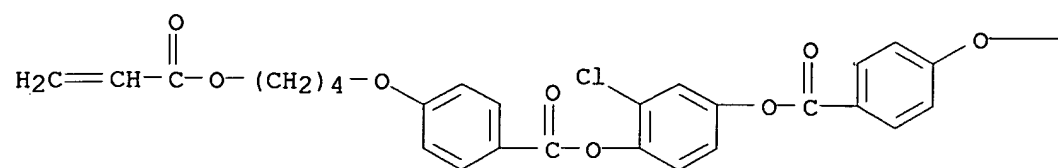
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4'-[2-[(1-oxo-2-propenyl)oxy]ethoxy][1,1'-biphenyl]-4-carboxylate], mixt. with 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] and 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] (9CI) (CA INDEX NAME)

CM 1

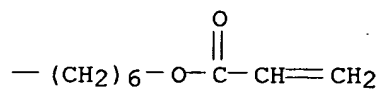
CRN 172257-75-9

CMF C36 H37 Cl O10

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PAGE 1-B

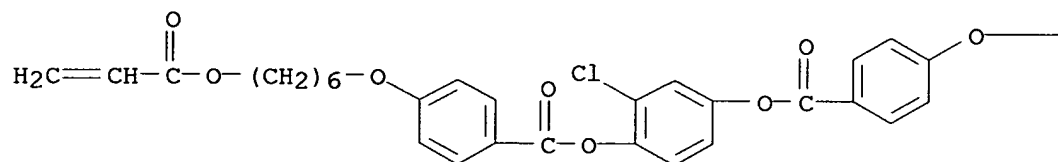


CM 2

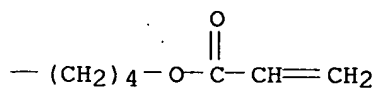
CRN 172257-74-8

CMF C36 H37 Cl O10

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PAGE 1-B

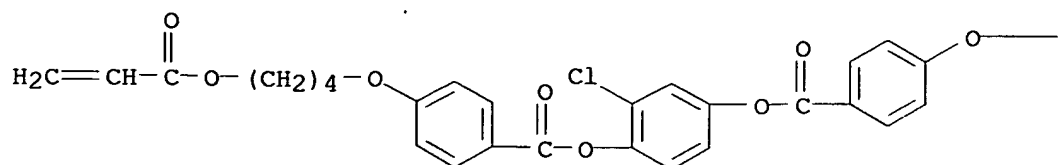


CM 3

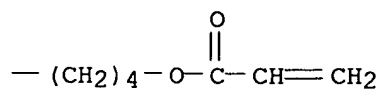
CRN 172257-73-7

CMF C34 H33 Cl O10

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PAGE 1-B

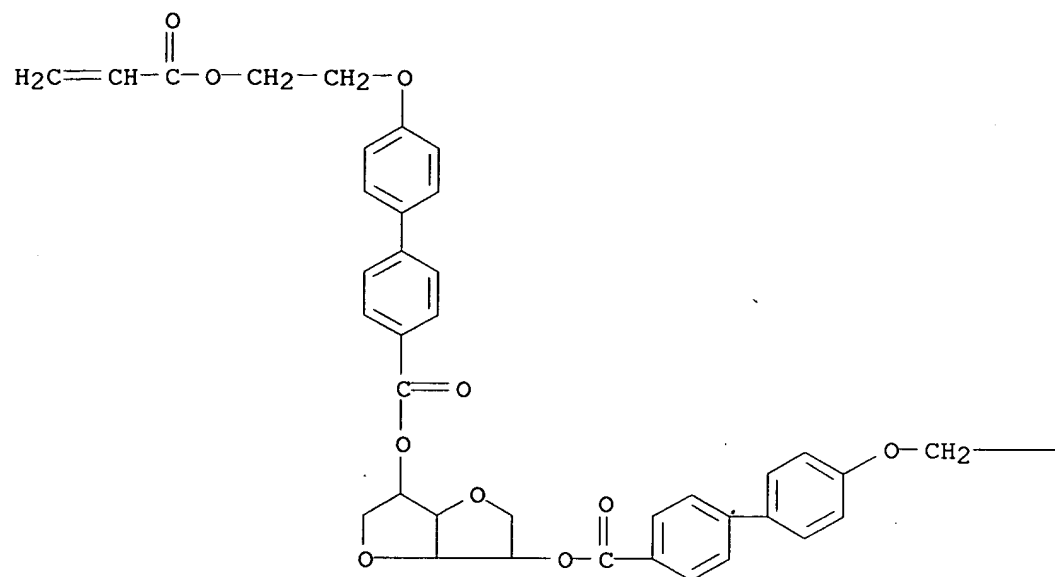


CM 4

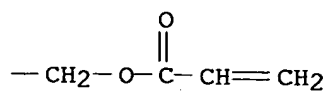
CRN 165186-75-4

CMF C42 H38 O12

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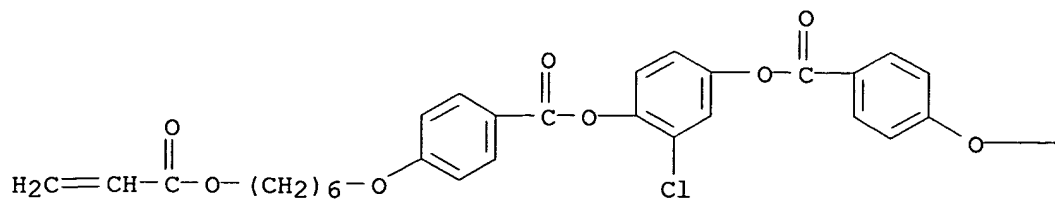
PAGE 1-B



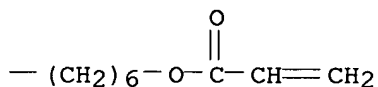
CM 5

CRN 150809-90-8
CMF C38 H41 Cl O10

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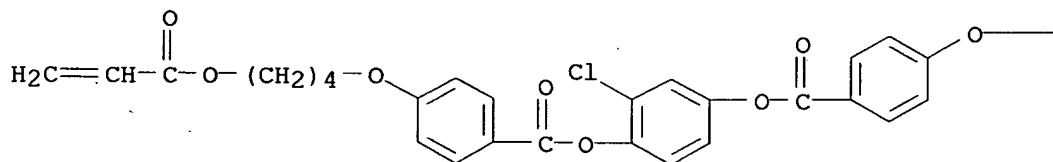


RN 172339-30-9 CAPLUS
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4'-[2-[(1-oxo-2-propenyl)oxy]ethoxy][1,1'-biphenyl]-4-carboxylate], mixt. with 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and (2-oxo-1,3-cyclopentanediyldiene)bis(methyldiyne-4,1-phenyleneoxy-6,1-hexanediyl) di-2-propenoate (9CI) (CA INDEX NAME)

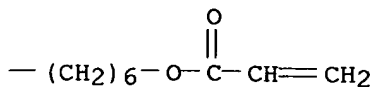
CM 1

CRN 172257-75-9
CMF C36 H37 Cl O10

PAGE 1-A



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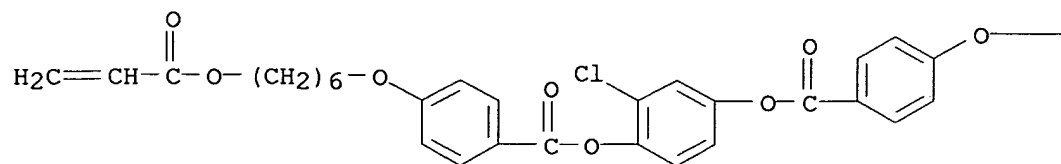


CM 2

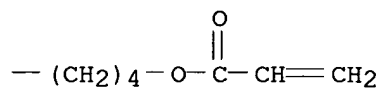
CRN 172257-74-8

CMF C36 H37 Cl O10

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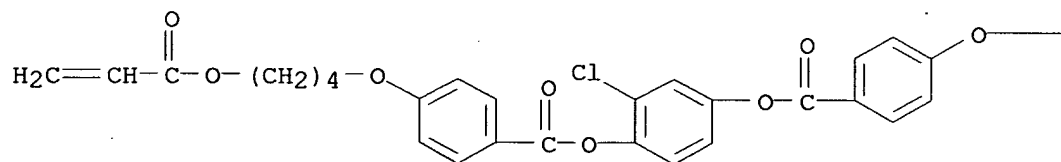


CM 3

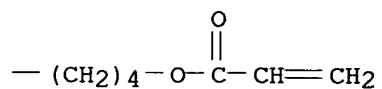
CRN 172257-73-7

CMF C34 H33 Cl O10

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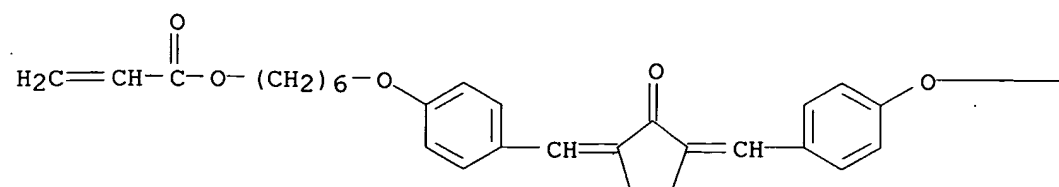


CM 4

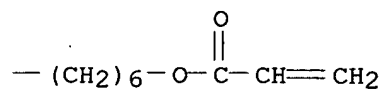
CRN 170366-04-8

CMF C37 H44 O7

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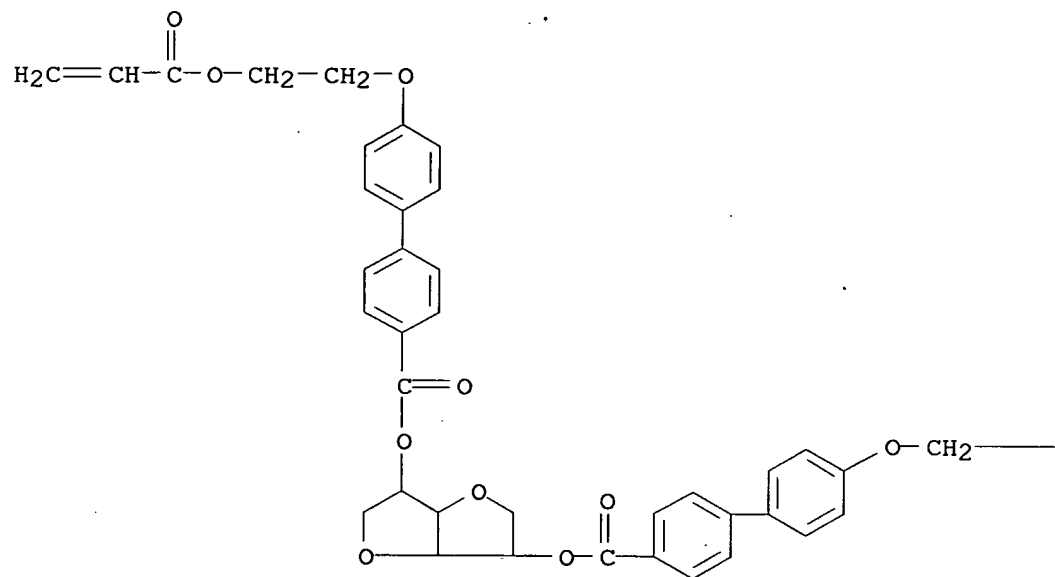


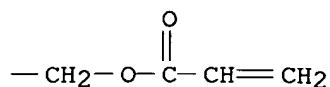
CM 5

CRN 165186-75-4

CMF C42 H38 O12

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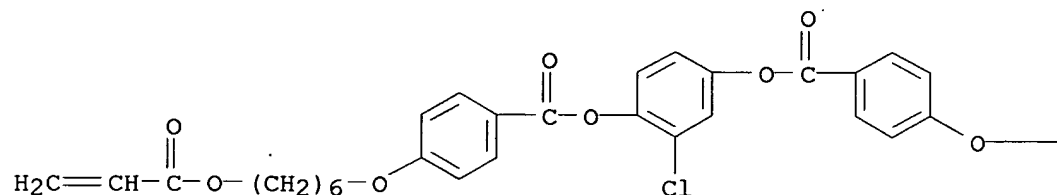


CM 6

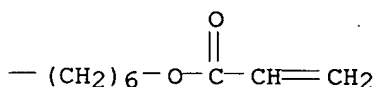
CRN 150809-90-8

CMF C38 H41 Cl O10

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RN 172339-31-0 CAPLUS

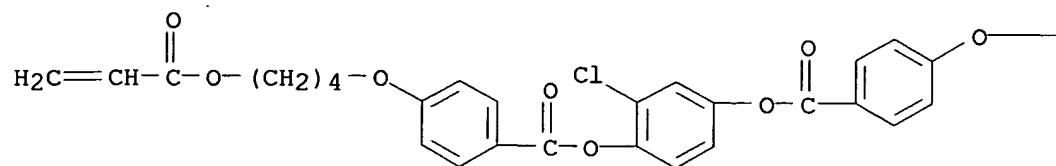
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4'-[2-[(1-oxo-2-propenyl)oxy]ethoxy][1,1'-biphenyl]-4-carboxylate], mixt. with 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and (2-oxo-1,3-cyclohexanediylidene)bis(methylidyne-4,1-phenyleneoxy-6,1-hexanediyl) di-2-propenoate (9CI) (CA INDEX NAME)

CM 1

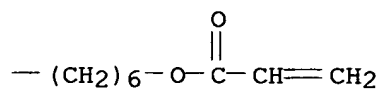
CRN 172257-75-9

CMF C36 H37 Cl O10

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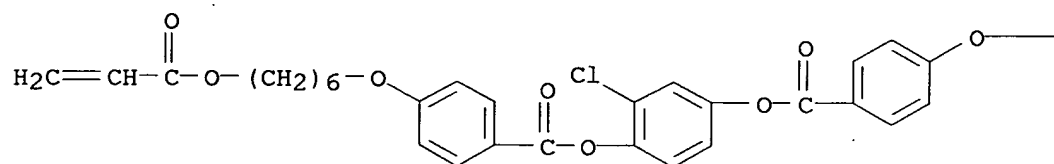


CM 2

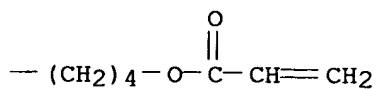
CRN 172257-74-8

CMF C36 H37 Cl O10

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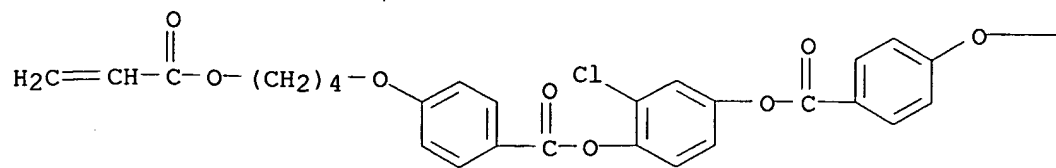


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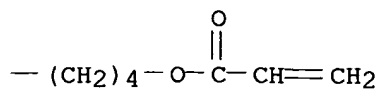
CRN 172257-73-7

CMF C34 H33 Cl O10

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PAGE 1-B

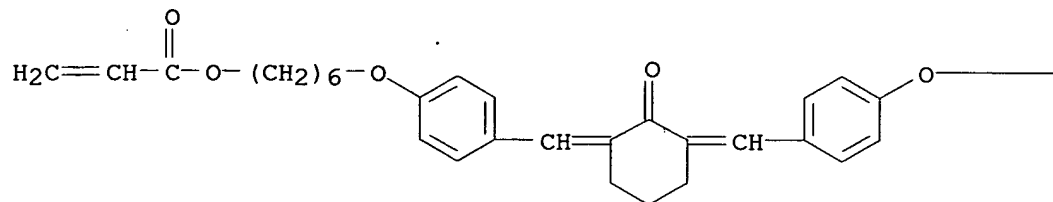


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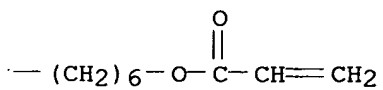
CRN 170366-05-9

CMF C38 H46 O7

PAGE 1-A



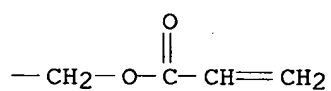
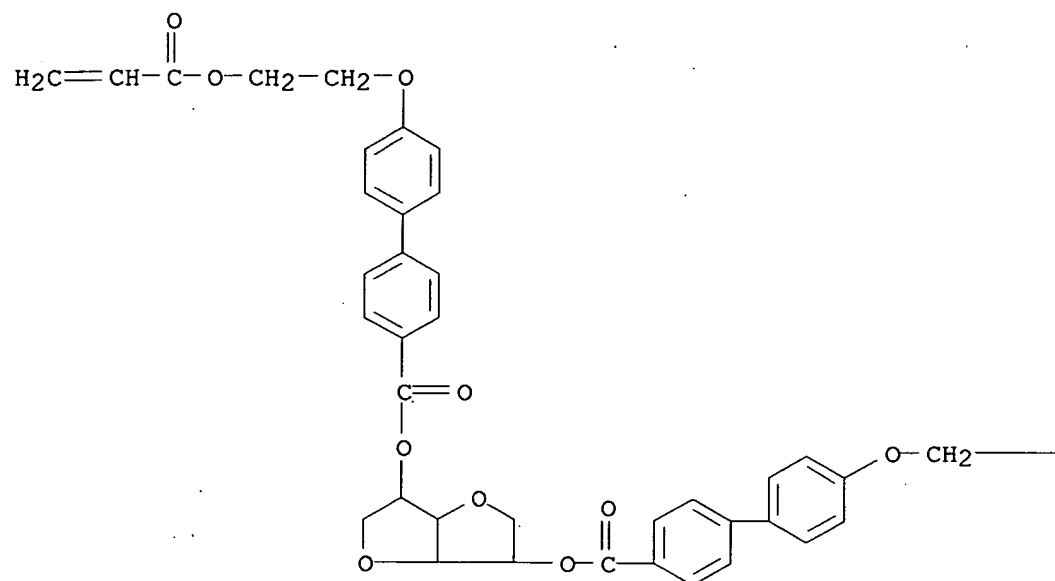
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CM 5

CRN 165186-75-4

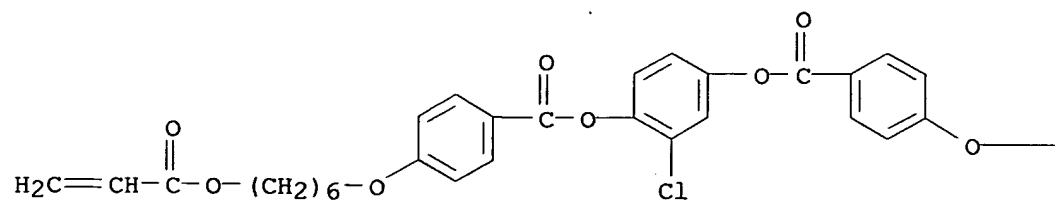
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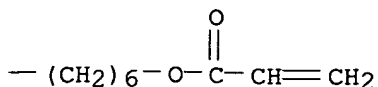


CM 6

CRN 150809-90-8

CMF C38 H41 Cl O10





RN 172339-32-1 CAPLUS

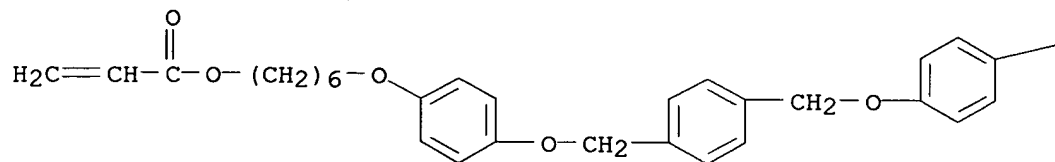
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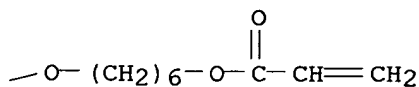
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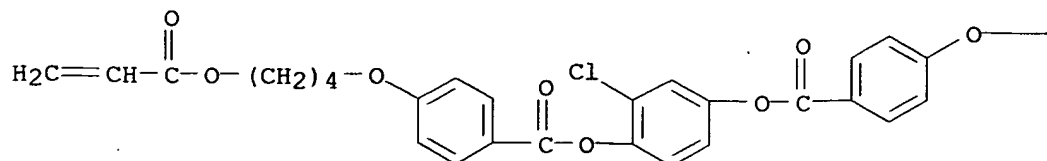


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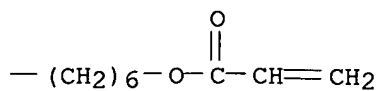
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CMF C36 H37 Cl O10

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PAGE 1-B

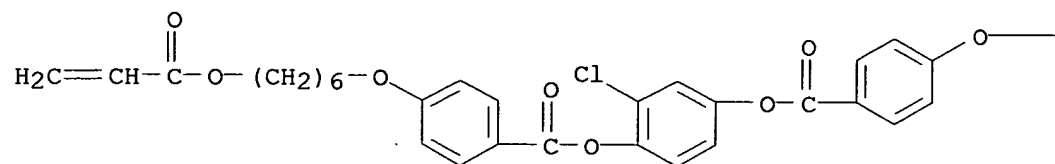


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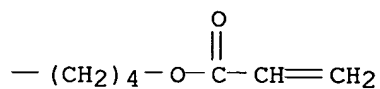
CRN 172257-74-8

CMF C36 H37 Cl O10

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PAGE 1-B

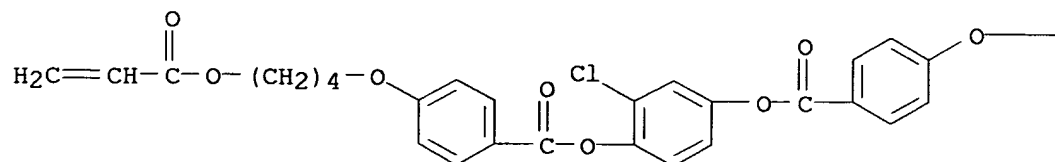


CM 4

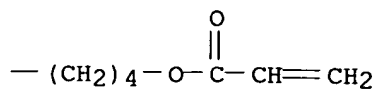
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CMF C34 H33 Cl O10

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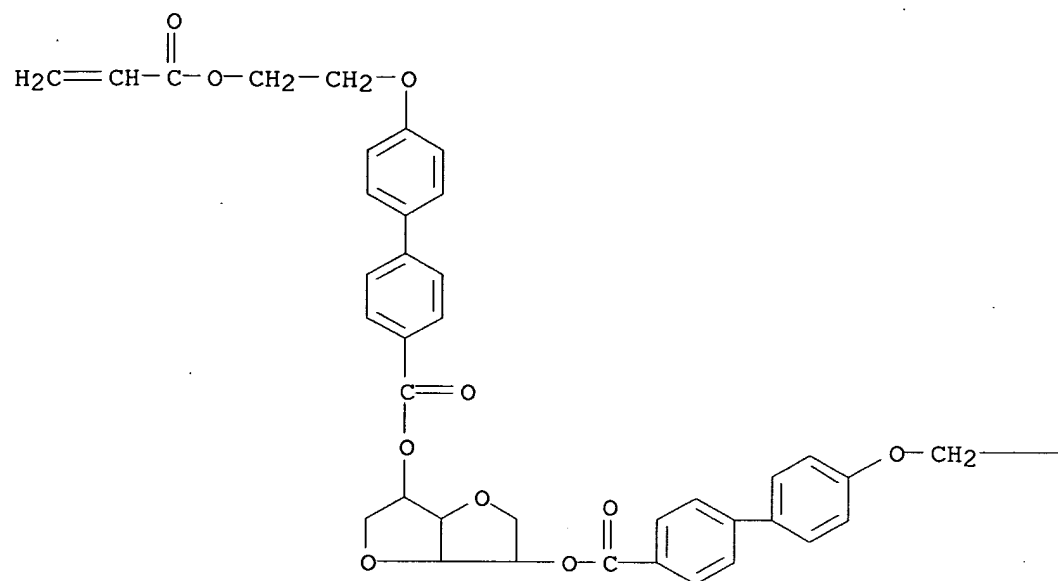
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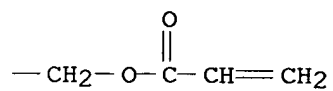
CM 5

CRN 165186-75-4
CMF C42 H38 O12

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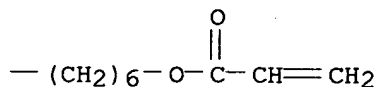
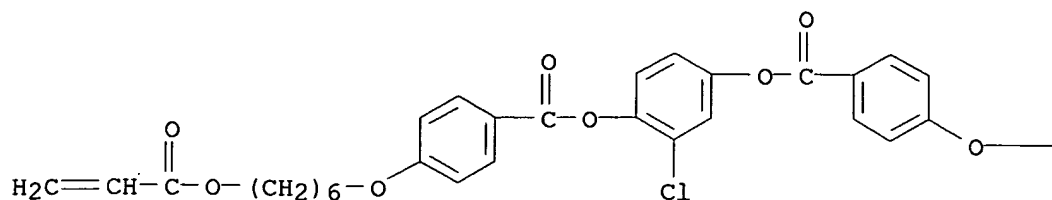


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CM 6

CRN 150809-90-8
CMF C38 H41 Cl O10



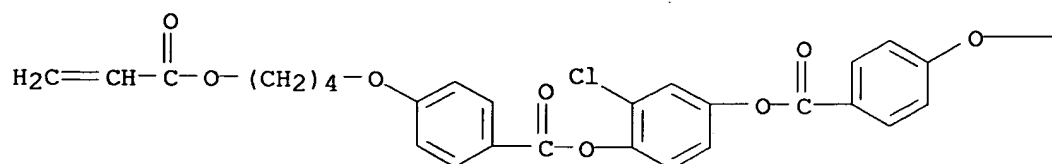
RN 172339-33-2 CAPLUS

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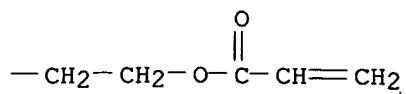
CM 1

CRN 172257-82-8

CMF C32 H29 Cl O10



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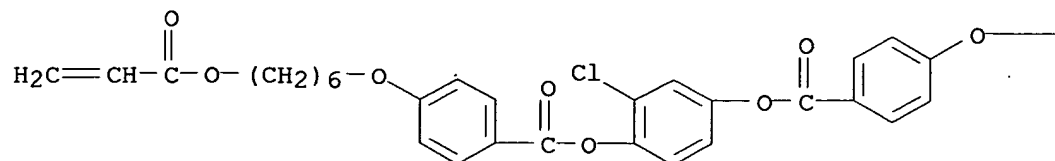


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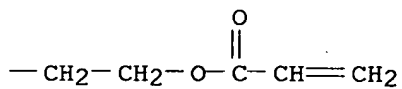
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CMF C34 H33 Cl O10

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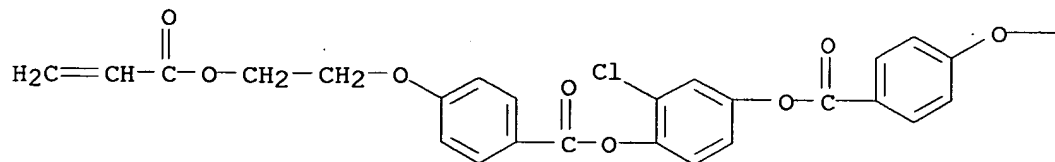


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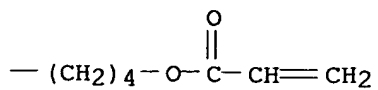
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CMF C32 H29 Cl O10

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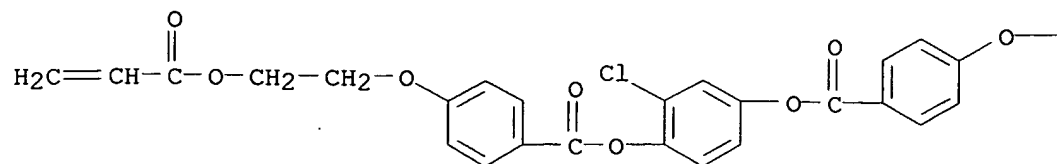
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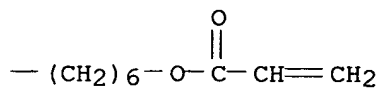
CM 4

CRN 172257-79-3
CMF C34 H33 Cl O10

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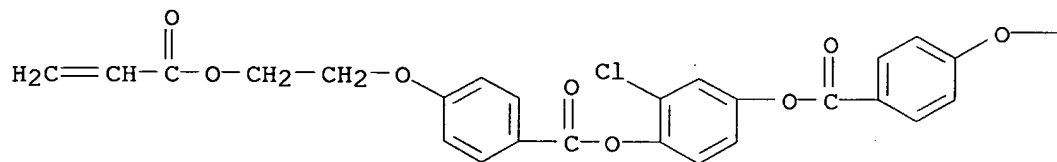
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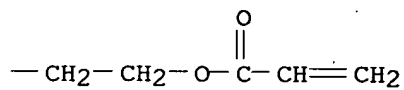
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CRN 172257-78-2
CMF C30 H25 Cl O10

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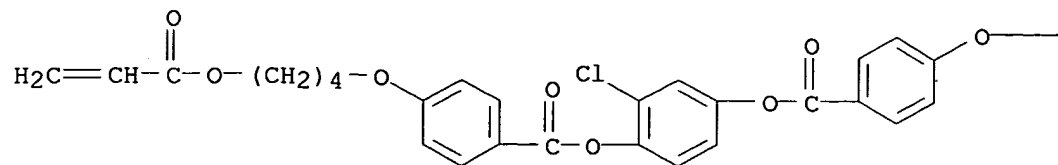
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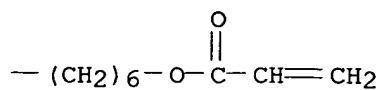
CM 6

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CMF C36 H37 Cl O10

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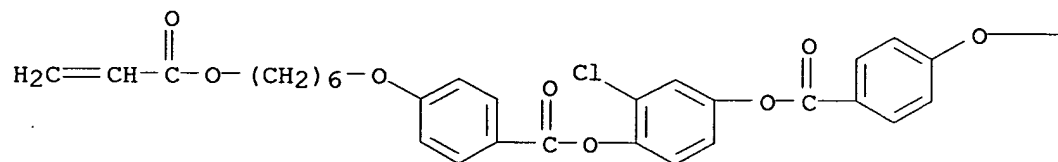
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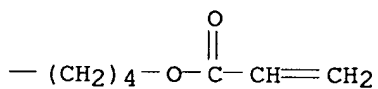
CM 7

CRN 172257-74-8
CMF C36 H37 Cl O10

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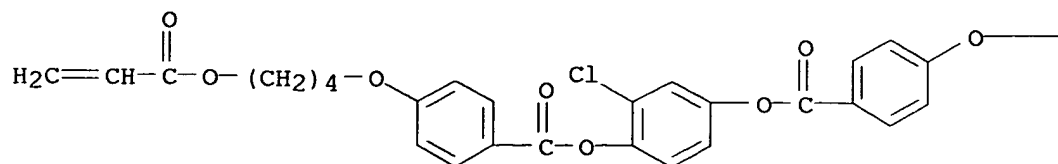
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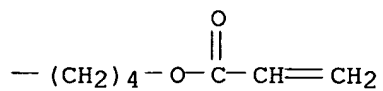
CM 8

CRN 172257-73-7
CMF C34 H33 Cl O10

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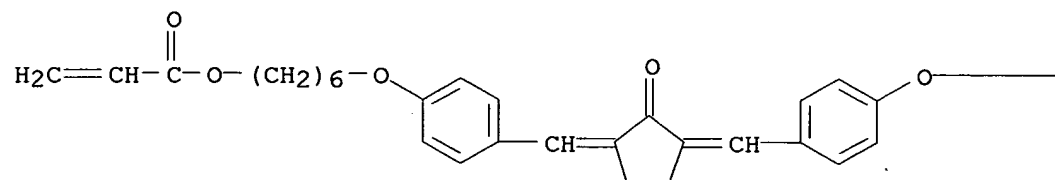


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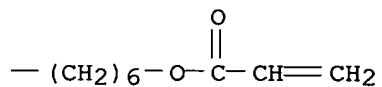
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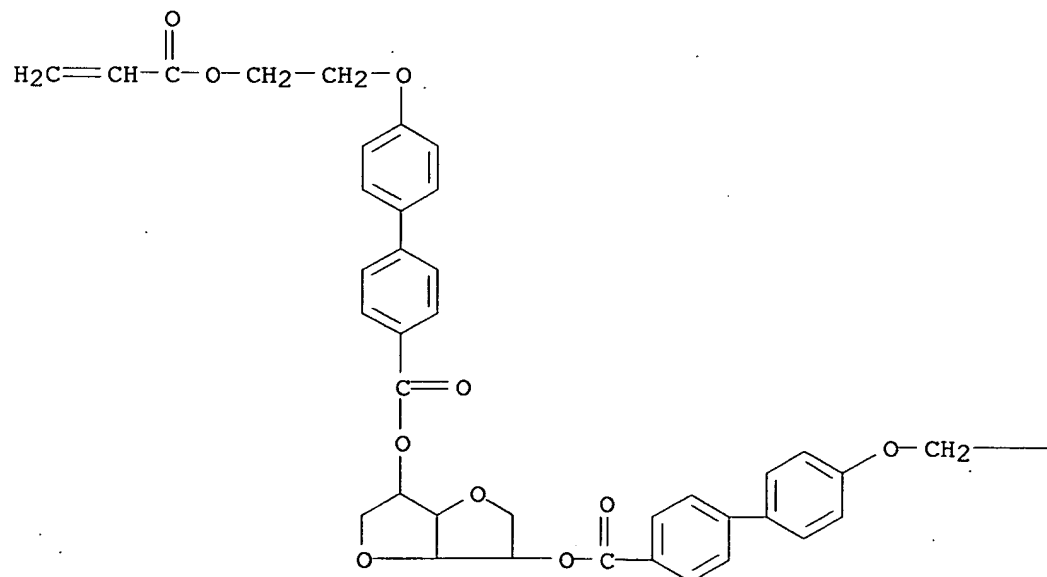


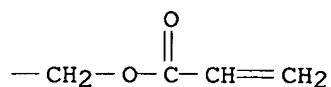
CM 10

CRN 165186-75-4

CMF C42 H38 O12

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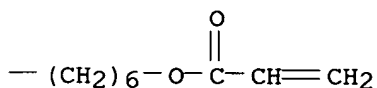
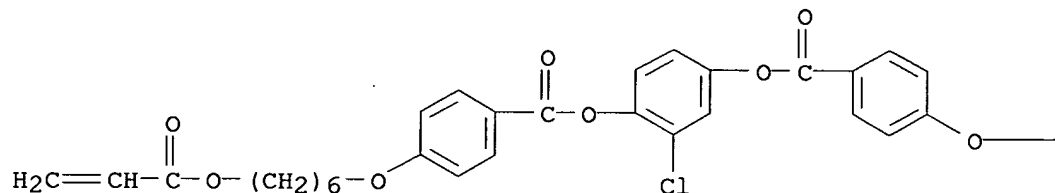




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CRN 150809-90-8

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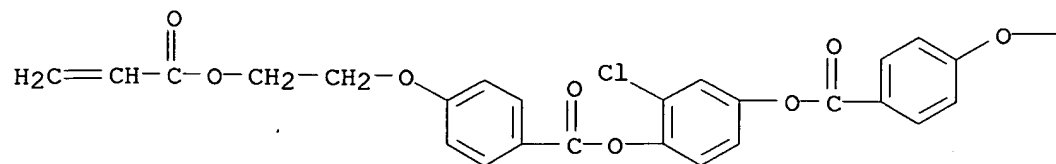


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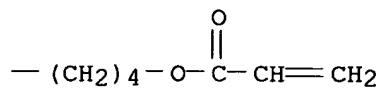
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4'-[2-[(1-oxo-2-propenyl)oxy]ethoxy][1,1'-biphenyl]-4-carboxylate], mixt. with 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-

CRN 172257-80-6
CMF C32 H29 Cl O10

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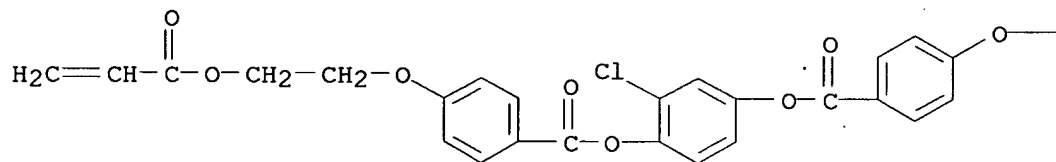
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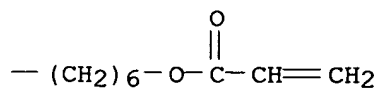
CM 4

CRN 172257-79-3
CMF C34 H33 Cl O10

PAGE 1-A



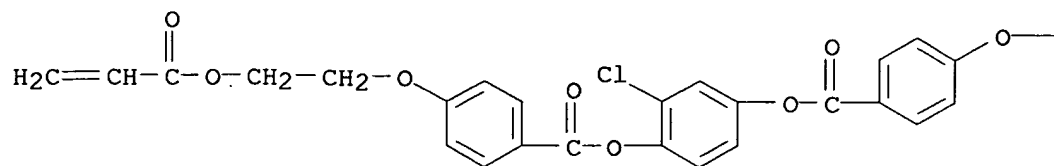
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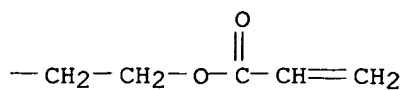
CM 5

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CMF C30 H25 Cl O10

PAGE 1-A



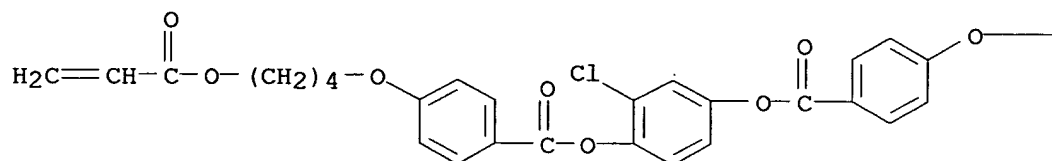
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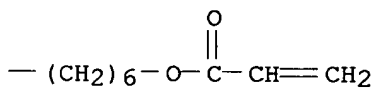
CM 6

CRN 172257-75-9
CMF C36 H37 Cl O10

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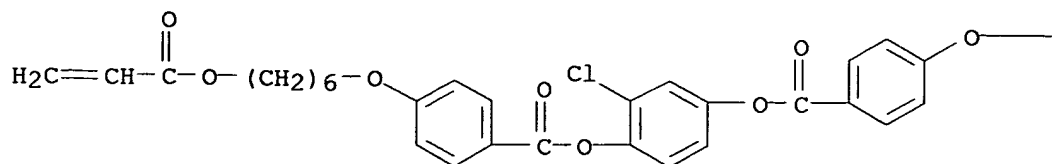
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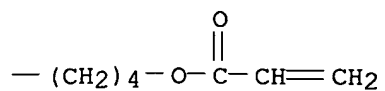
CM 7

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CMF C36 H37 Cl O10

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PAGE 1-B

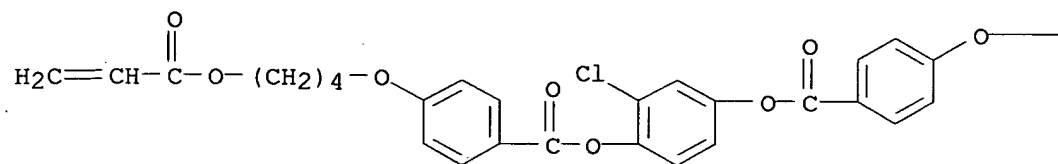


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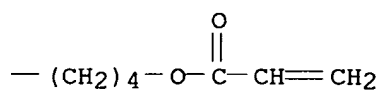
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CMF C34 H33 Cl O10

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PAGE 1-B

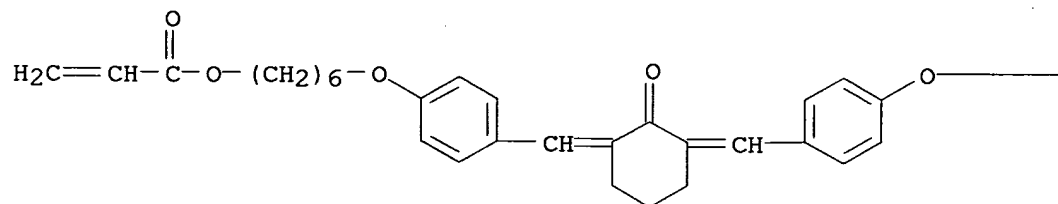


CM 9

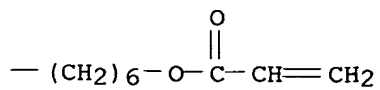
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CMF C38 H46 O7

PAGE 1-A



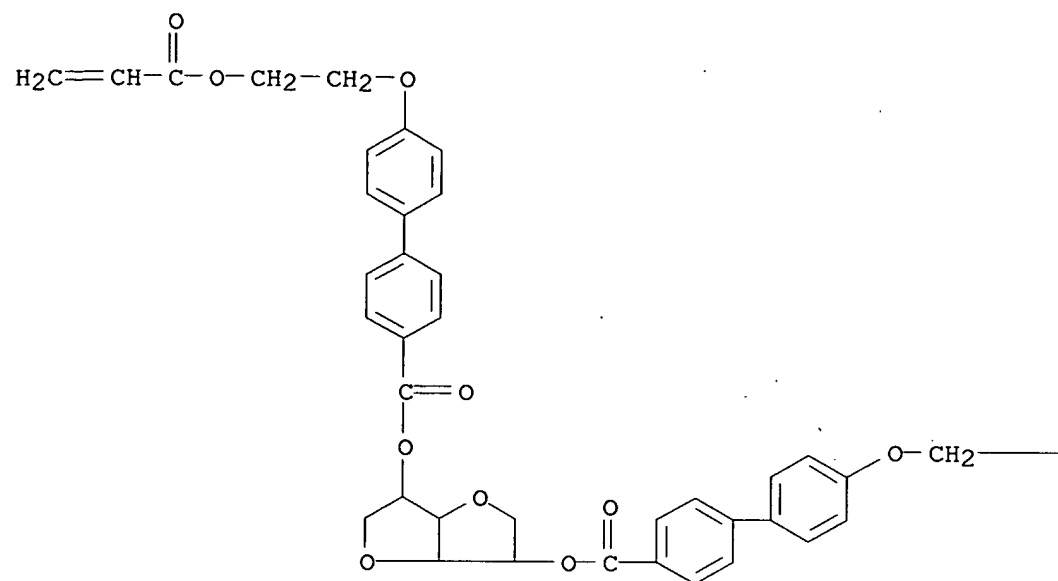
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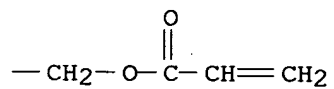
CM 10

CRN 165186-75-4
CMF C42 H38 O12

PAGE 1-A

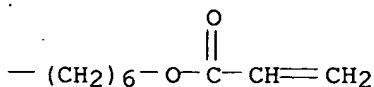
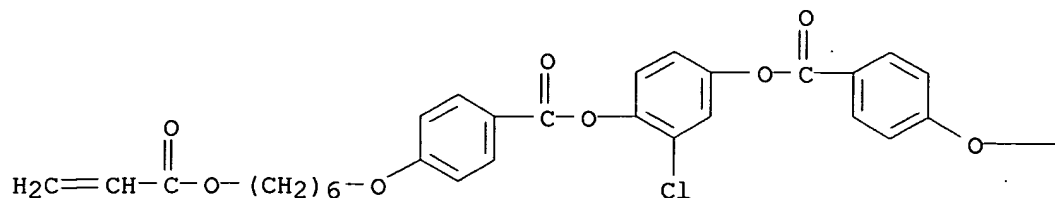


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CM 11

CRN 150809-90-8
CMF C38 H41 Cl O10



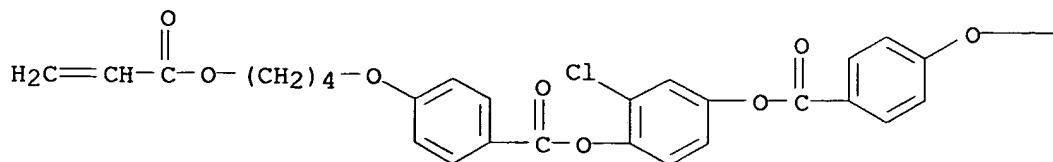
RN 172339-35-4 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4'-[2-[(1-oxo-2-propenyl)oxy]ethoxy][1,1'-biphenyl]-4-carboxylate], mixt. with 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and 1,4-phenylenebis(methyleneoxy-4,1-phenyleneoxy-6,1-hexanediyl) di-2-propenoate (9CI) (CA INDEX NAME)

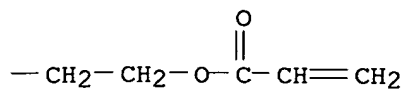
CM 1

CRN 172257-82-8

CMF C32 H29 Cl O10



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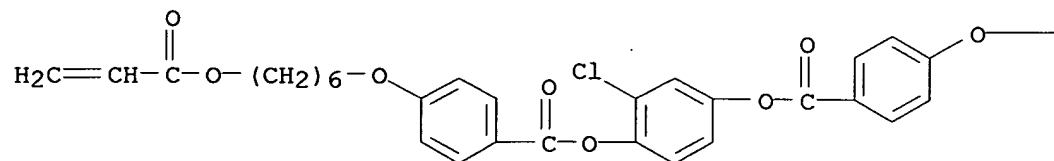


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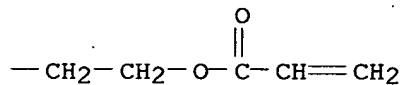
CRN 172257-81-7

CMF C34 H33 Cl O10

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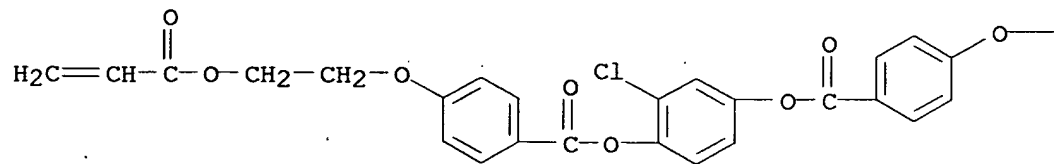


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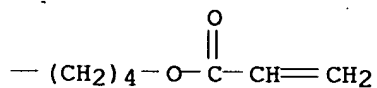
CRN 172257-80-6

CMF C32 H29 Cl O10

PAGE 1-A



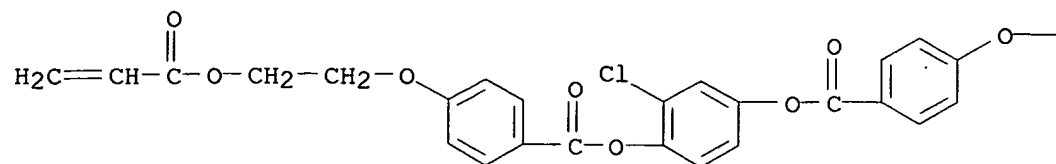
PAGE 1-B



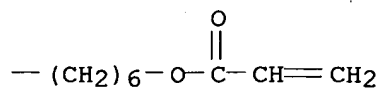
CM 4

CRN 172257-79-3
CMF C34 H33 Cl O10

PAGE 1-A



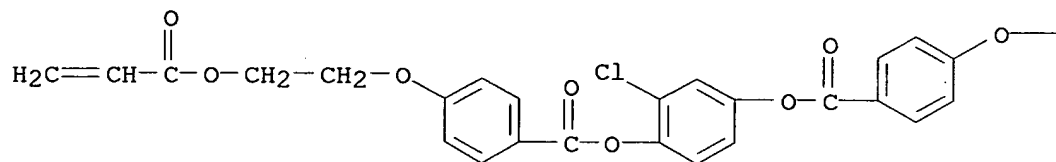
PAGE 1-B



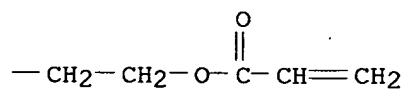
CM 5

CRN 172257-78-2
CMF C30 H25 Cl O10

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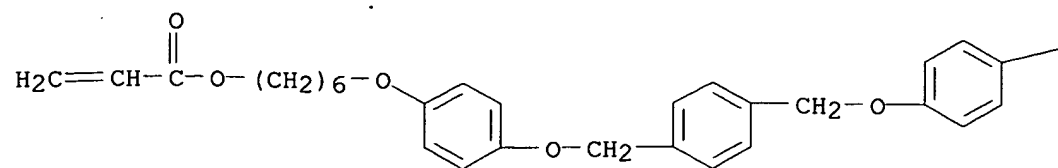
PAGE 1-B



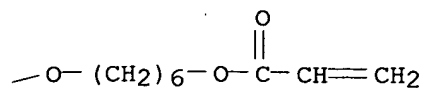
CM 6

CRN 172257-77-1
CMF C38 H46 O8

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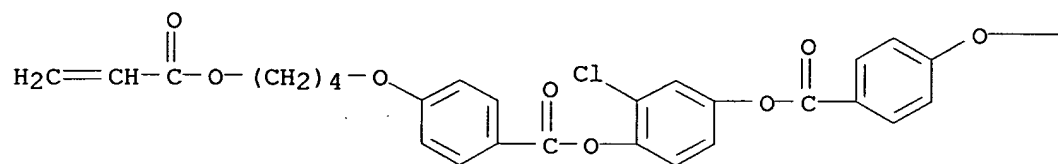
PAGE 1-B



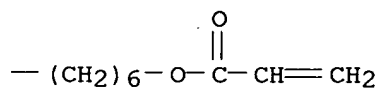
CM 7

CRN 172257-75-9
CMF C36 H37 Cl O10

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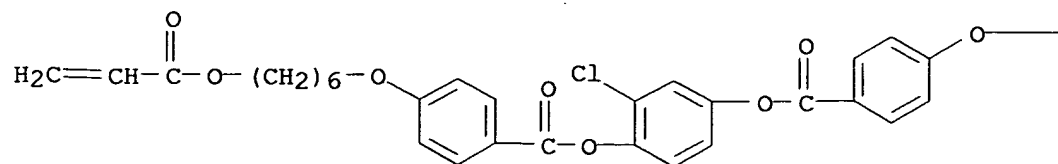
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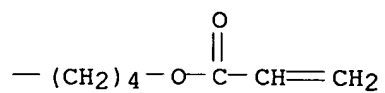
CM 8

CRN 172257-74-8
CMF C36 H37 Cl O10

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PAGE 1-B

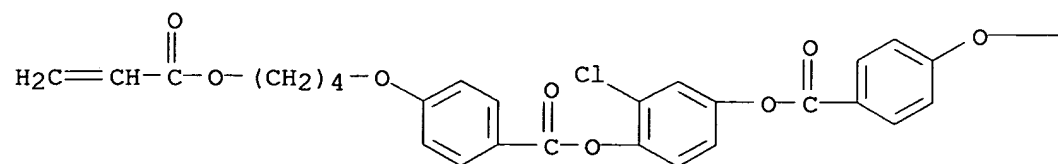


CM 9

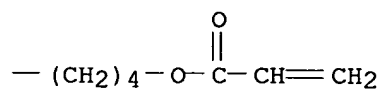
CRN 172257-73-7

CMF C34 H33 Cl O10

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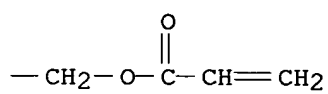
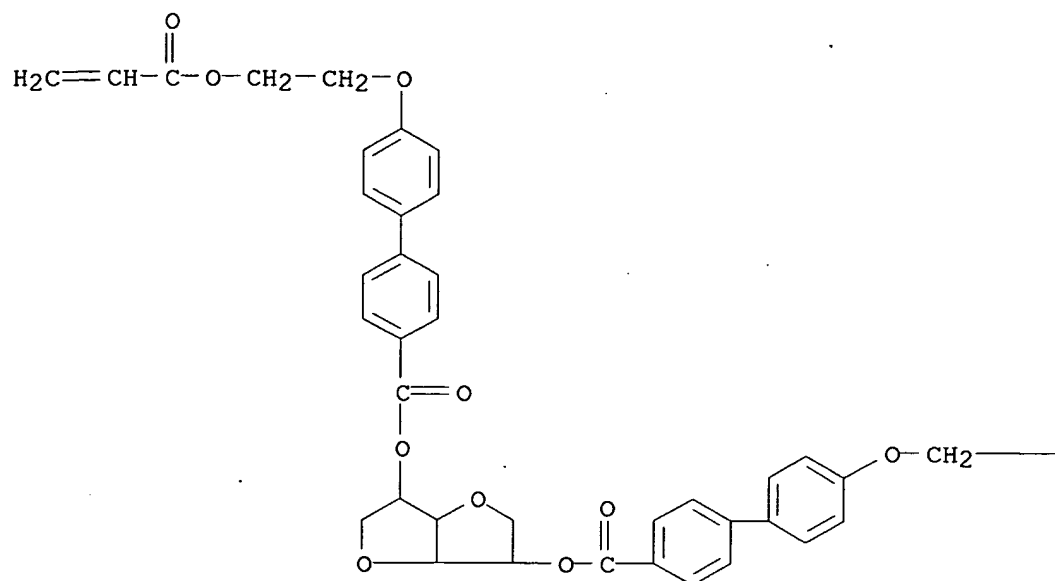
PAGE 1-B



CM 10

CRN 165186-75-4

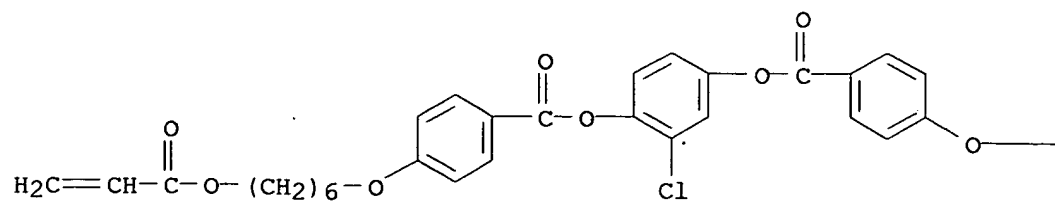
CMF C42 H38 O12

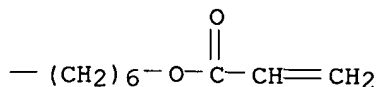


CM 11

CRN 150809-90-8

CMF C38 H41 Cl O10





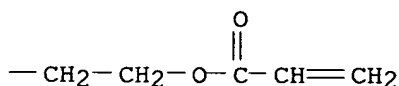
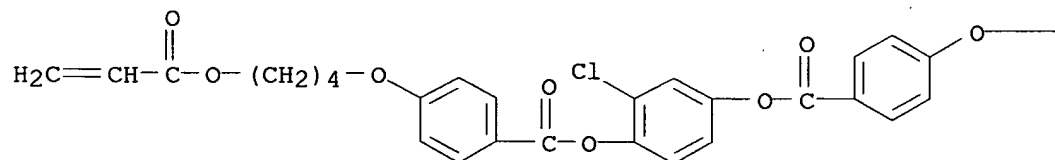
RN 172339-37-6 CAPLUS

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CM 1

CRN 172257-82-8

CMF C32 H29 Cl O10

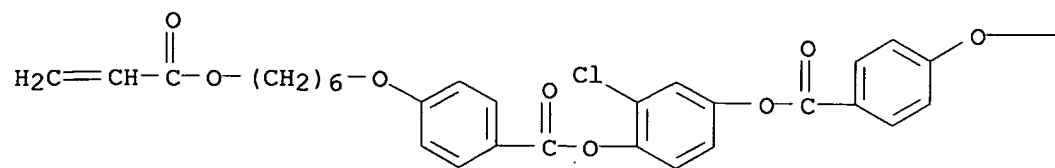


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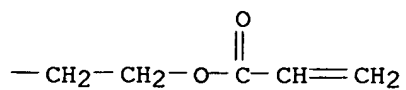
CRN 172257-81-7

CMF C34 H33 Cl O10

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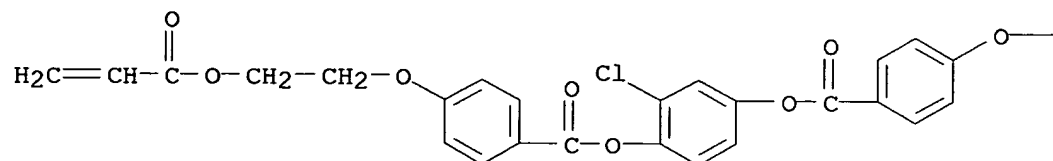
PAGE 1-B



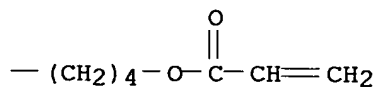
CM 3

CRN 172257-80-6
CMF C32 H29 Cl O10

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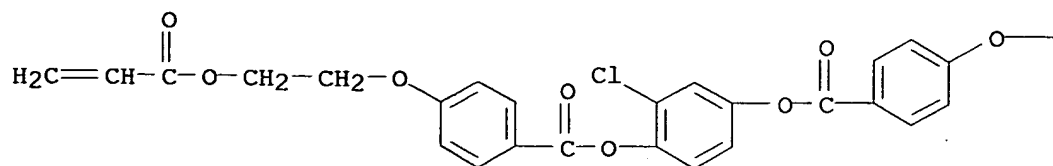
PAGE 1-B



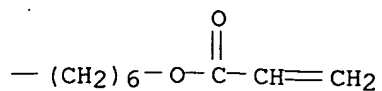
CM 4

CRN 172257-79-3
CMF C34 H33 Cl O10

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PAGE 1-B

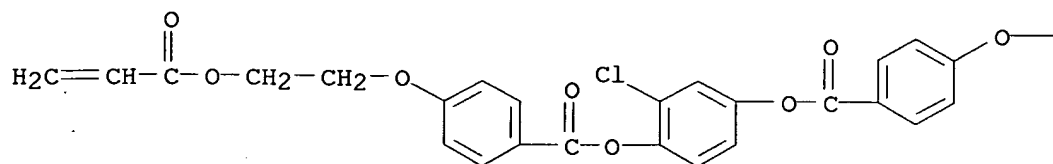


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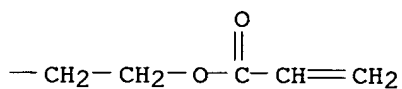
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CMF C30 H25 Cl O10

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PAGE 1-B

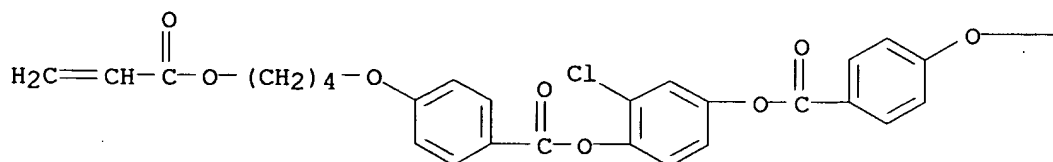


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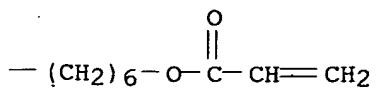
CRN 172257-75-9

CMF C36 H37 Cl O10

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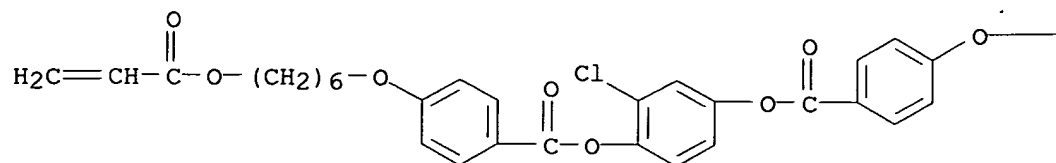
PAGE 1-B



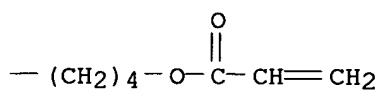
CM 7

CRN 172257-74-8
CMF C36 H37 Cl O10

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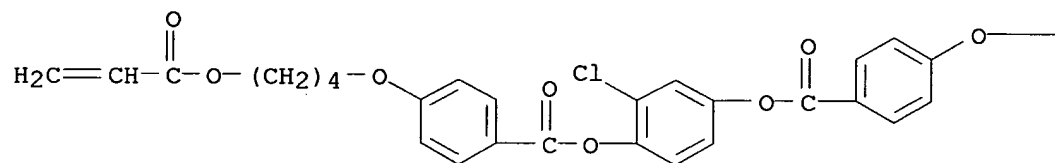
PAGE 1-B



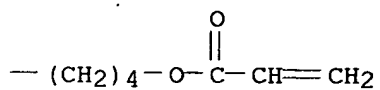
CM 8

CRN 172257-73-7
CMF C34 H33 Cl O10

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PAGE 1-B

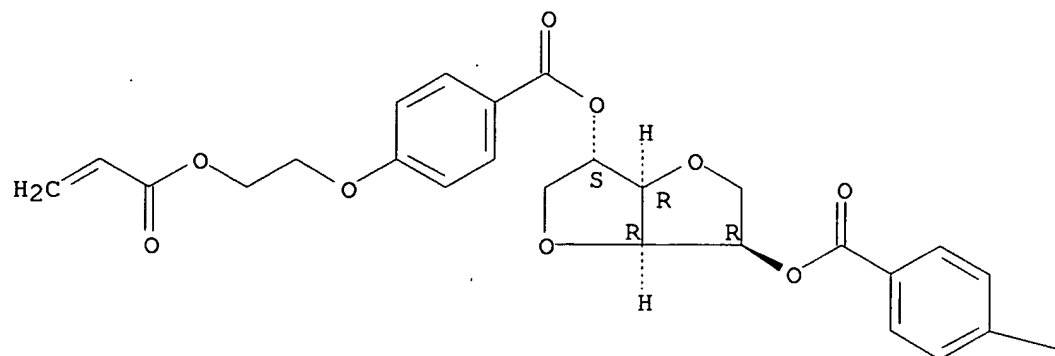


CM 9

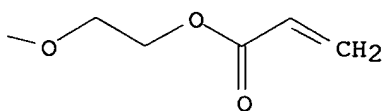
CRN 165186-76-5
CMF C30 H30 O12

Absolute stereochemistry.

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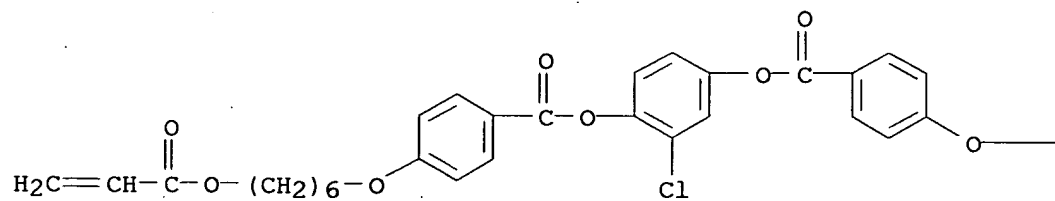


CM 10

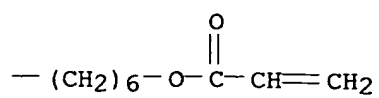
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CMF C38 H41 Cl O10

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RN 172339-38-7 CAPLUS

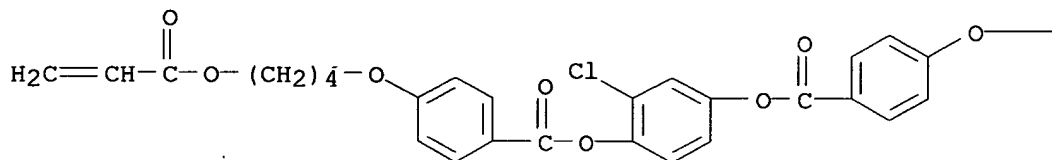
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4'-[2-[(1-oxo-2-propenyl)oxy]ethoxy][1,1'-biphenyl]-4-carboxylate], mixt. with 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and 1,6-hexanediyl di-2-propenoate (9CI) (CA INDEX NAME)

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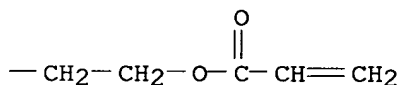
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CMF C32 H29 Cl O10

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PAGE 1-B

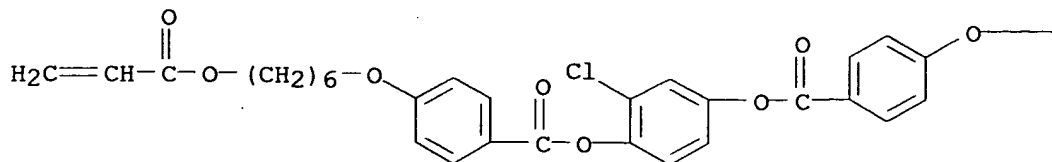


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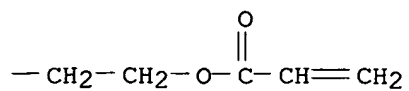
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CMF C34 H33 Cl O10

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PAGE 1-B

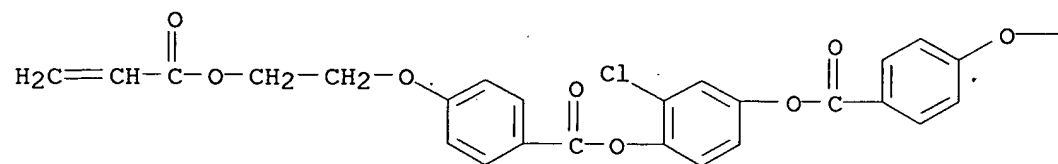


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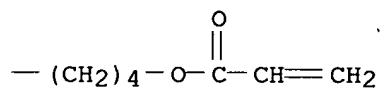
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CMF C32 H29 Cl O10

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PAGE 1-B

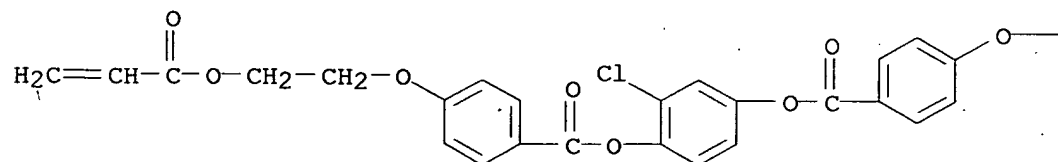


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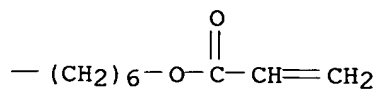
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CMF C34 H33 Cl O10

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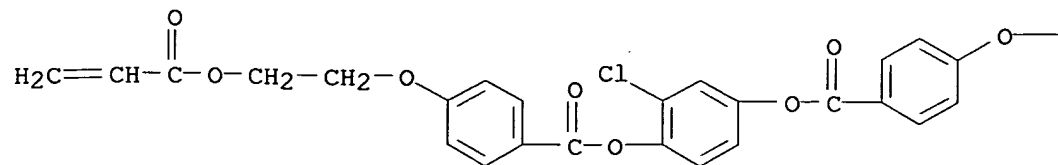
PAGE 1-B



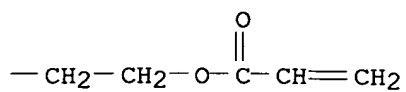
CM 5

CRN 172257-78-2
CMF C30 H25 Cl O10

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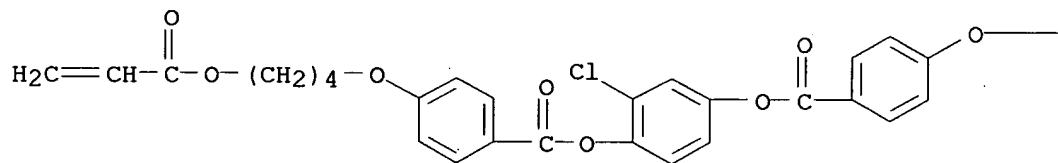
PAGE 1-B



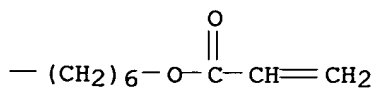
CM 6

CRN 172257-75-9
CMF C36 H37 Cl O10

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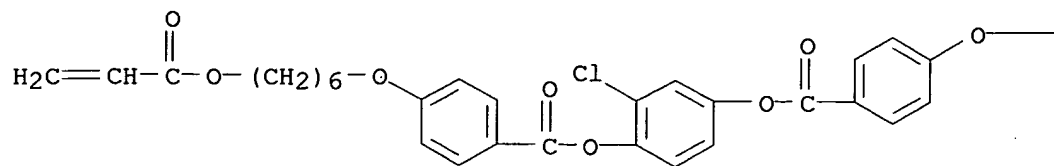
PAGE 1-B



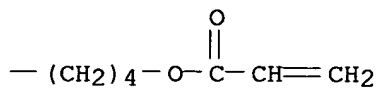
CM 7

CRN 172257-74-8
CMF C36 H37 Cl O10

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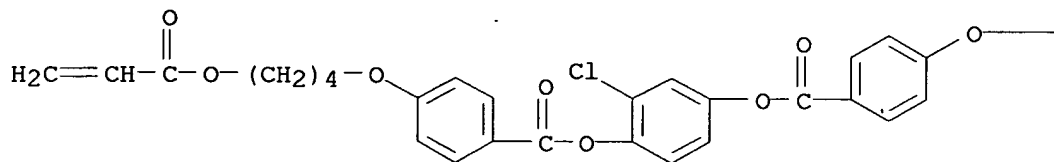
PAGE 1-B



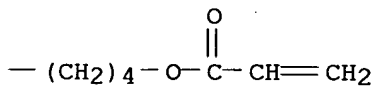
CM 8

CRN 172257-73-7
CMF C34 H33 Cl O10

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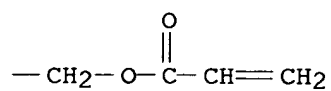
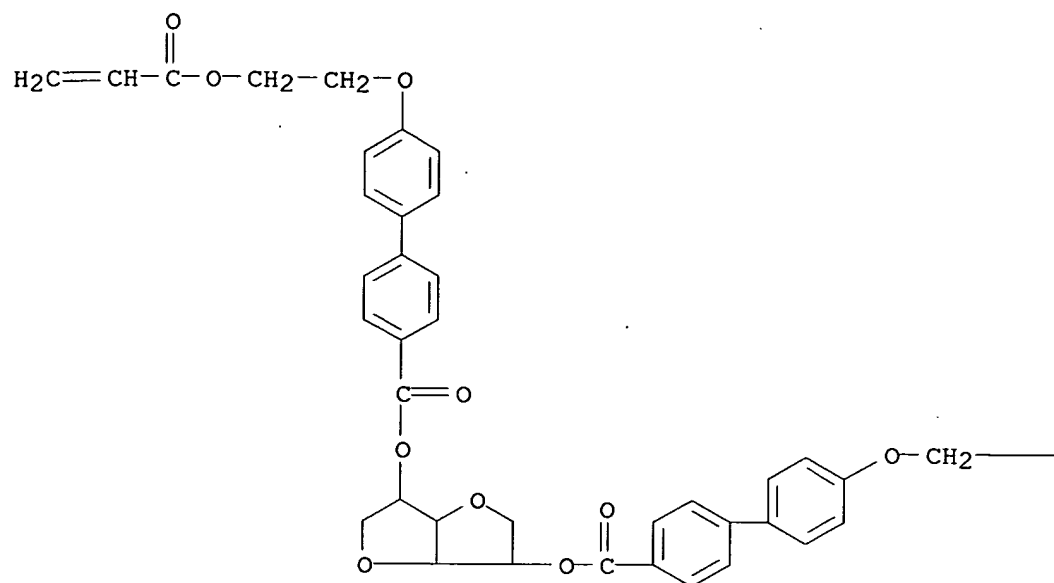


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CM 9

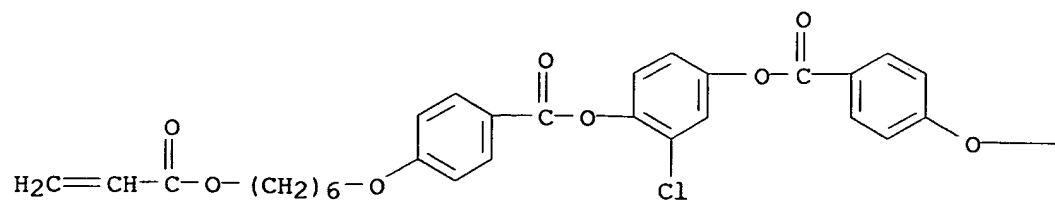
CRN 165186-75-4
CMF C42 H38 O12

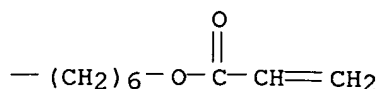


CM 10

CRN 150809-90-8

CMF C38 H41 Cl O10

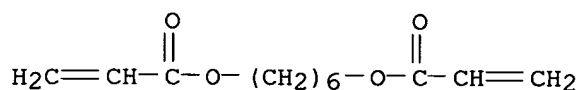




CM 11

CRN 13048-33-4

CMF C12 H18 O4



RN 172339-39-8 CAPLUS

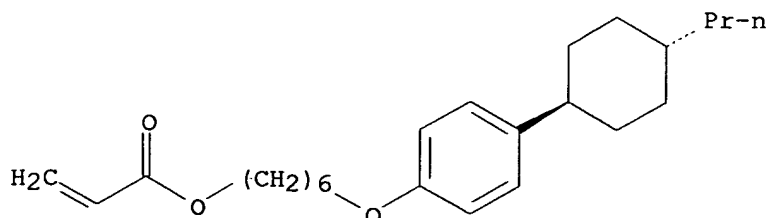
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4'-[2-[(1-oxo-2-propenyl)oxy]ethoxy][1,1'-biphenyl]-4-carboxylate], mixt. with 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and trans-6-[4-(4-propylcyclohexyl)phenoxy]hexyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

CRN 172257-84-0

CMF C24 H36 O3

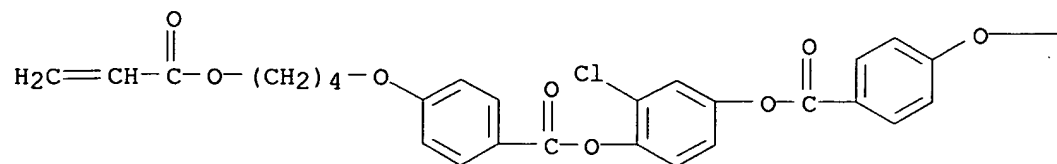
Relative stereochemistry.



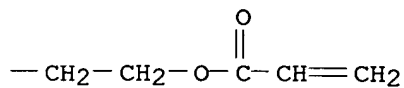
CM 2

CRN 172257-82-8
CMF C32 H29 Cl O10

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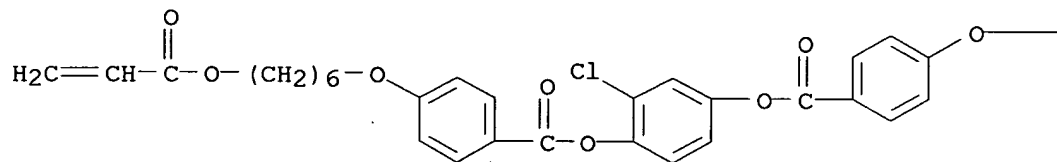
PAGE 1-B



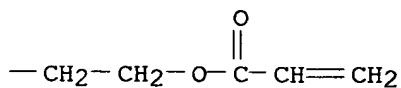
CM 3

CRN 172257-81-7
CMF C34 H33 Cl O10

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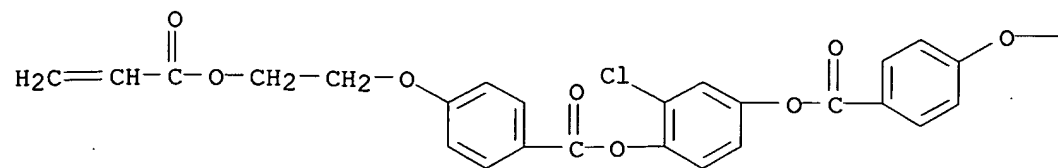
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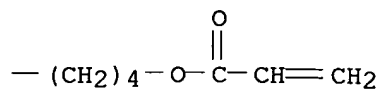
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CRN 172257-80-6
CMF C32 H29 Cl O10

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PAGE 1-B

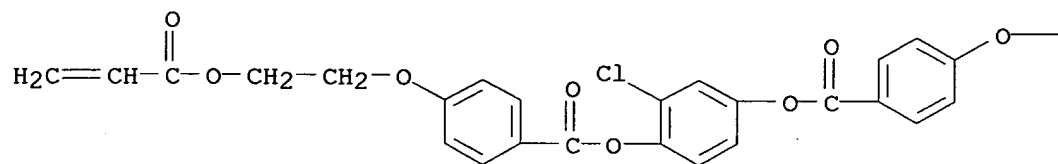


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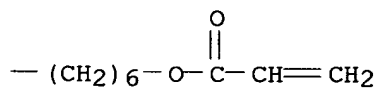
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CMF C34 H33 Cl O10

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PAGE 1-B

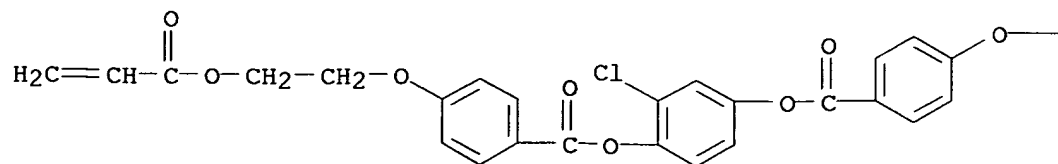


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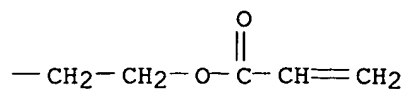
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PAGE 1-B

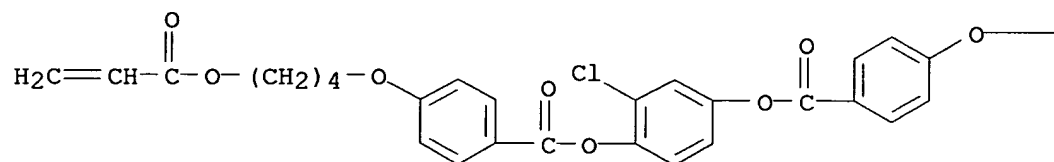


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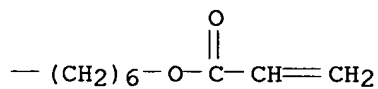
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CMF C36 H37 Cl O10

PAGE 1-A



PAGE 1-B

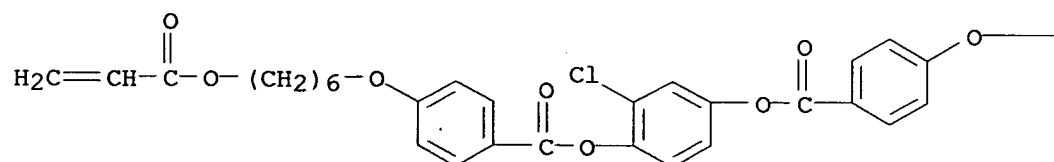


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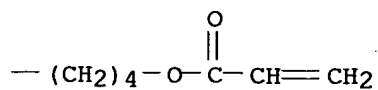
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CMF C36 H37 Cl O10

PAGE 1-A

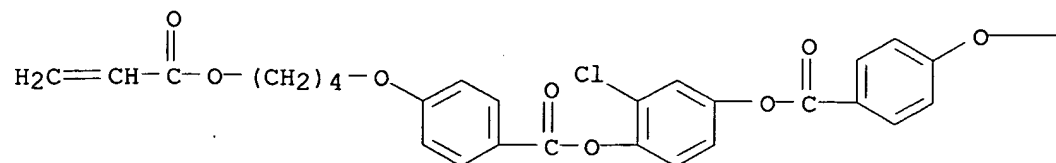


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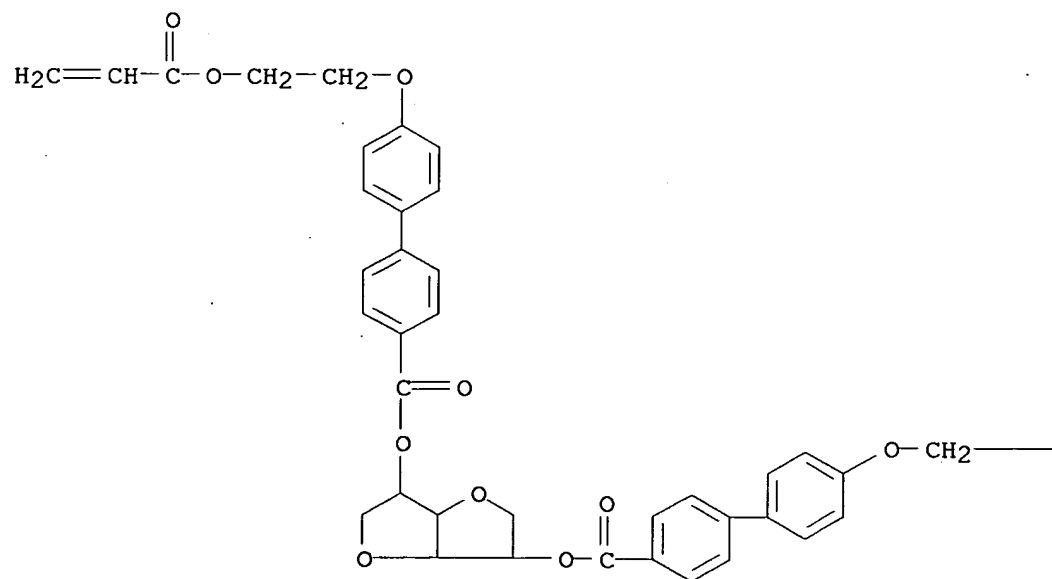
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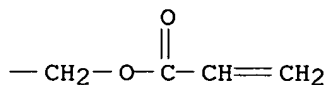
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$$-(\text{CH}_2)_4-\text{O}-\overset{\text{O}}{\parallel}\text{C}-\text{CH}=\text{CH}_2$$

CRN 165186-75-4
CMF C42 H38 O12

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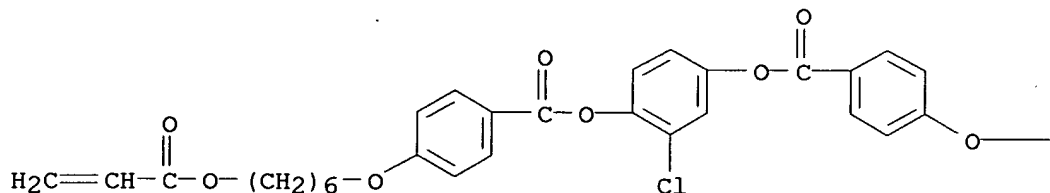


CM 11

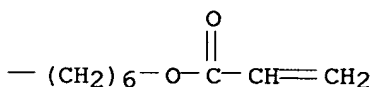
CRN 150809-90-8

CMF C38 H41 Cl O10

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PAGE 1-B



RN 172339-40-1 CAPLUS

CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4'-[2-[(1-oxo-2-propenyl)oxy]ethoxy][1,1'-biphenyl]-4-carboxylate], mixt. with 2-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-chloro-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 2-chloro-1,4-phenylene bis[4-[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[2-[(1-oxo-2-

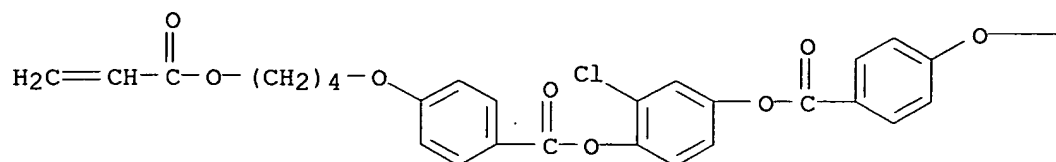
propenyl)oxy]ethoxy]benzoate], 2-chloro-1,4-phenylene bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate] and 1,4-phenylene bis[4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate] (9CI) (CA INDEX NAME)

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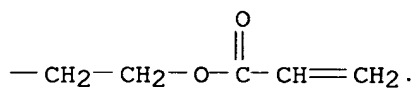
CRN 172257-82-8

CMF C32 H29 Cl O10

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PAGE 1-B

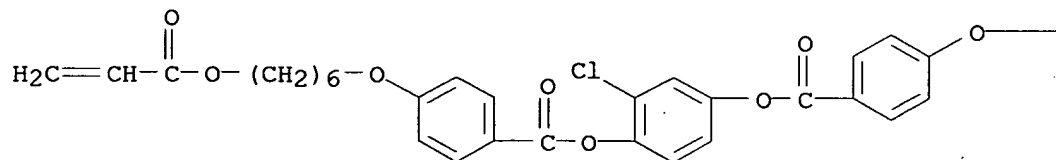


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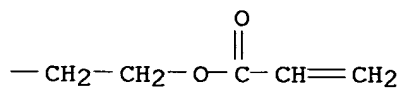
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CMF C34 H33 Cl O10

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PAGE 1-B

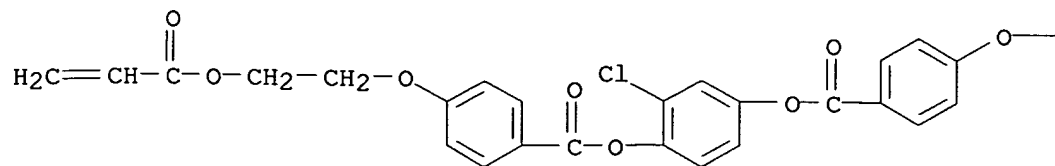


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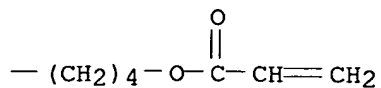
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CMF C32 H29 Cl O10

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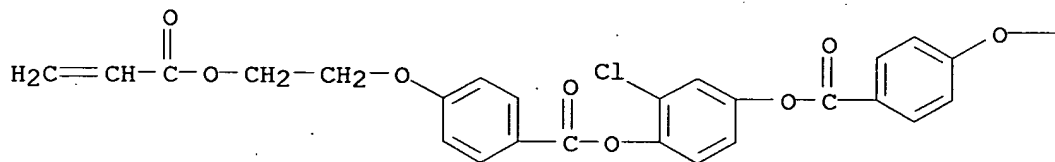
PAGE 1-B



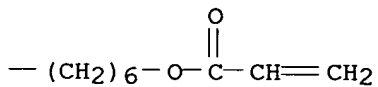
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CMF C34 H33 Cl O10

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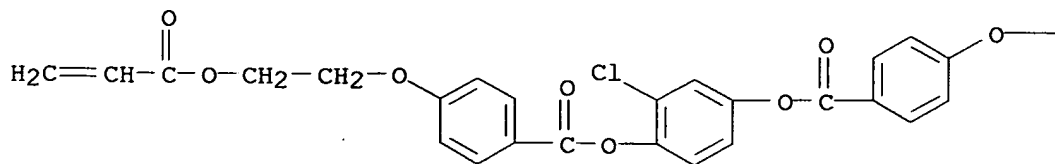
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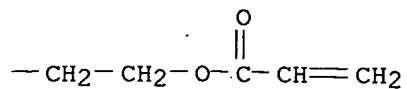
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CRN 172257-78-2
CMF C30 H25 Cl O10

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PAGE 1-B

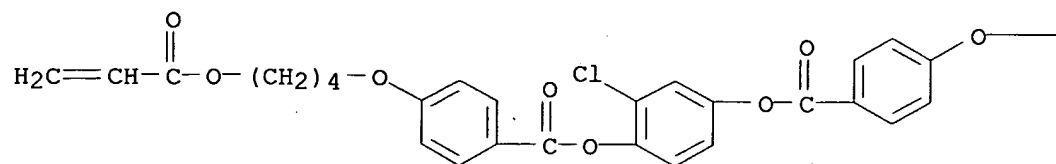


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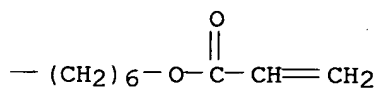
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CMF C36 H37 Cl O10

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PAGE 1-B

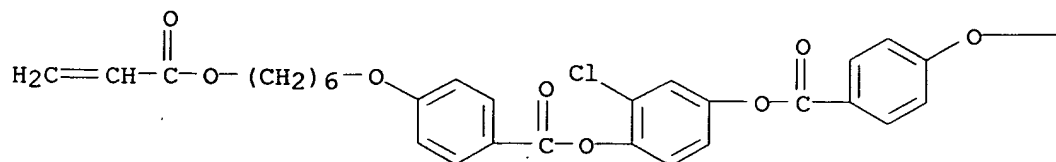


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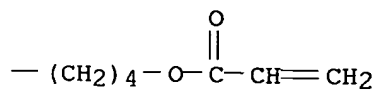
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CMF C36 H37 Cl O10

PAGE 1-A



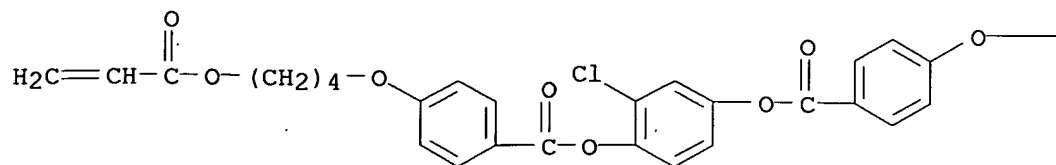
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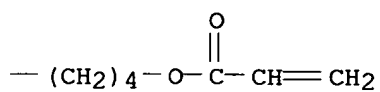
CM 8

CRN 172257-73-7
 CMF C34 H33 Cl O10

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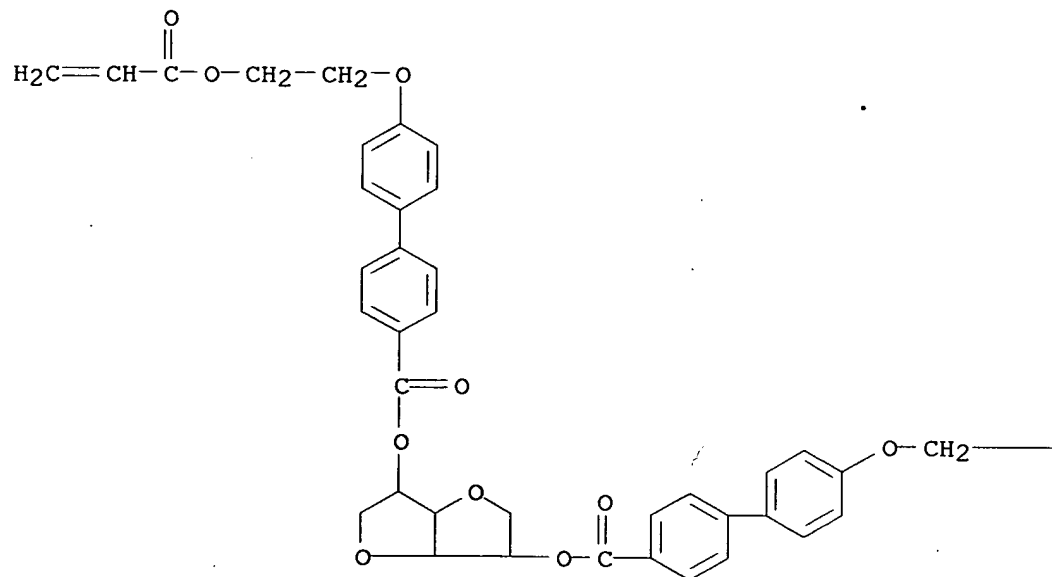
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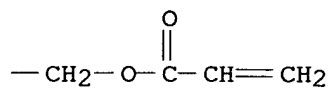


CM 9

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 CMF C42 H38 O12

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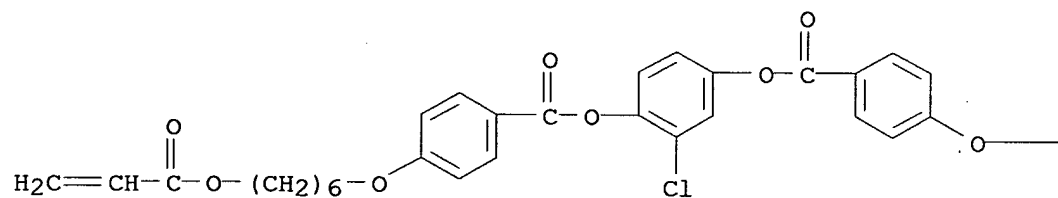


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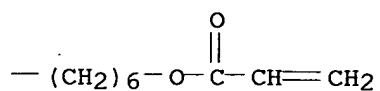
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CMF C38 H41 Cl O10

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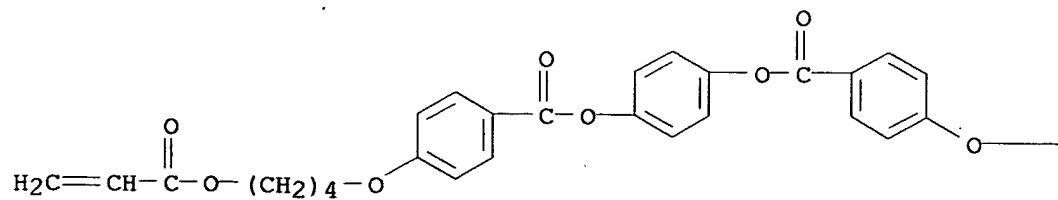


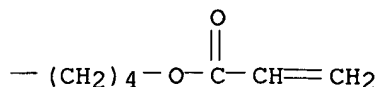
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CMF C34 H34 O10

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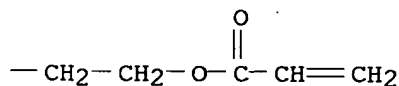
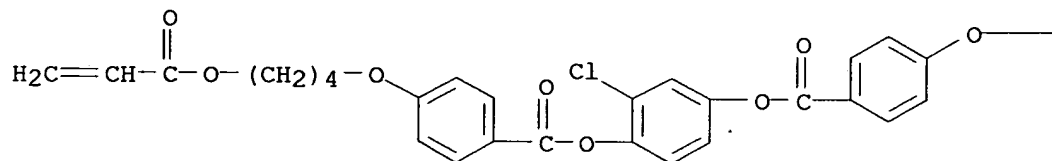
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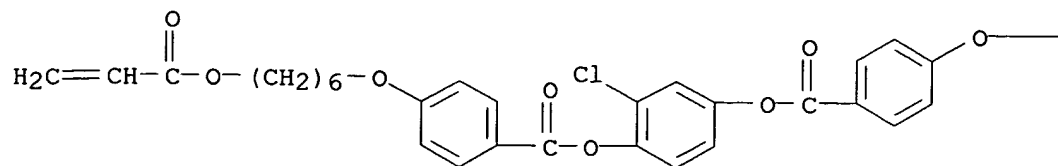


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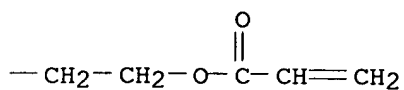
CRN 172257-81-7

CMF C34 H33 Cl O10

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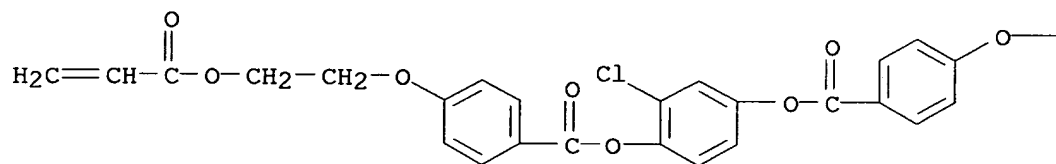
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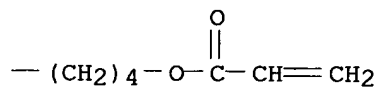
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CRN 172257-80-6
CMF C32 H29 Cl O10

PAGE 1-A



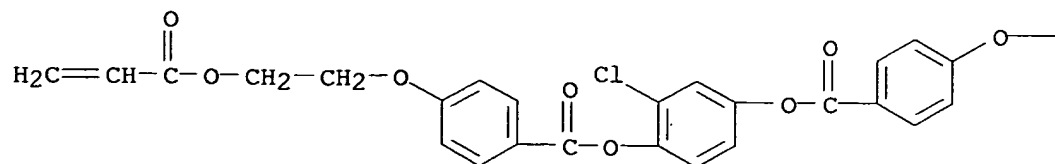
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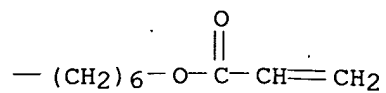
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CMF C34 H33 Cl O10

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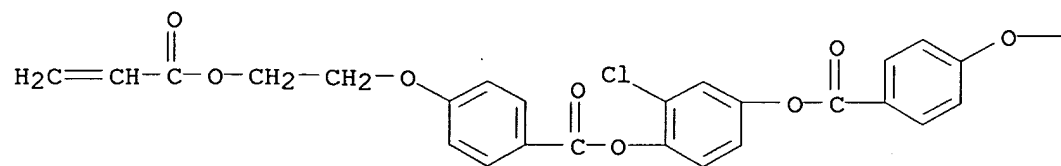


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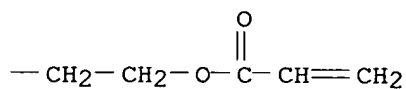
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CMF C30 H25 Cl O10

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PAGE 1-B

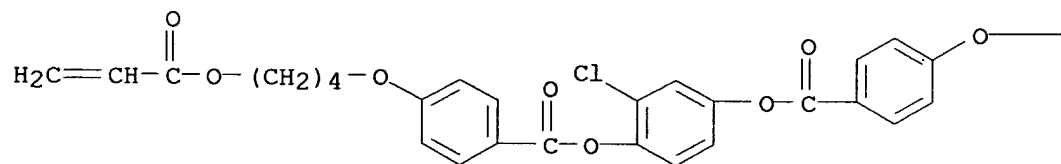


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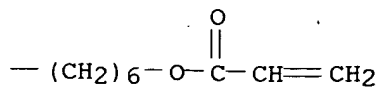
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CMF C36 H37 Cl O10

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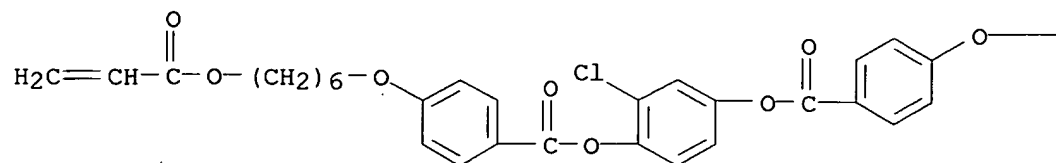
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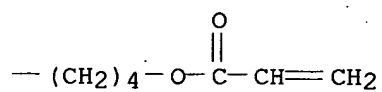
CM 7

CRN 172257-74-8
CMF C36 H37 Cl O10

PAGE 1-A



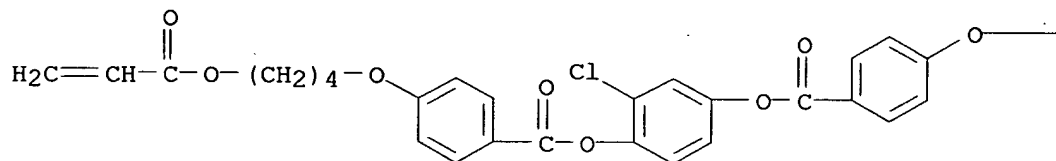
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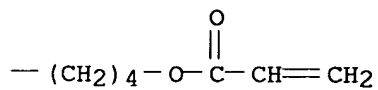
CM 8

CRN 172257-73-7
CMF C34 H33 Cl O10

PAGE 1-A

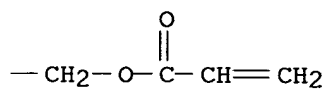
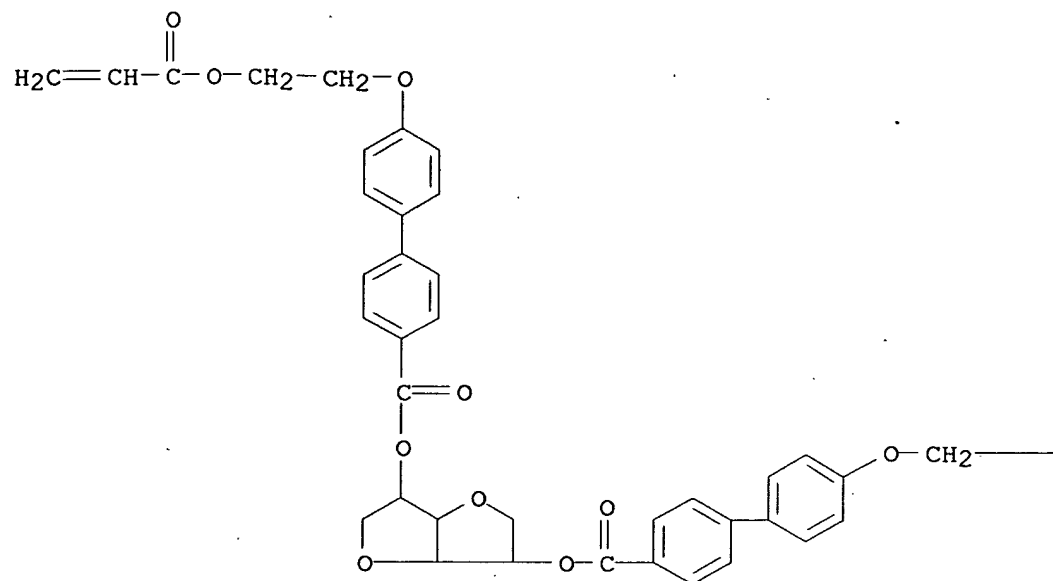


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CM 9

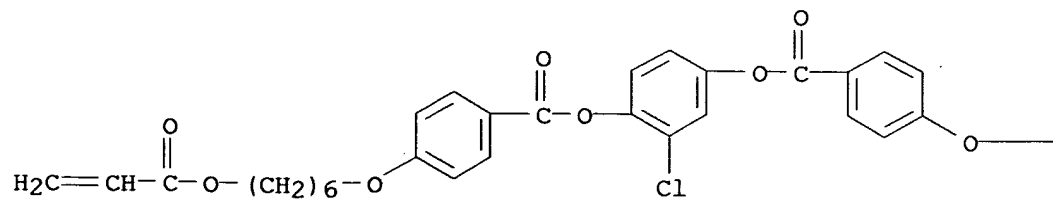
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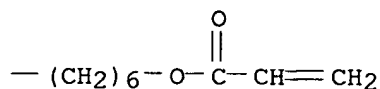


CM 10

CRN 150809-90-8

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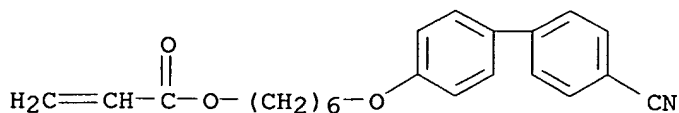




CM 11

CRN 89823-23-4

CMF C22 H23 N O3



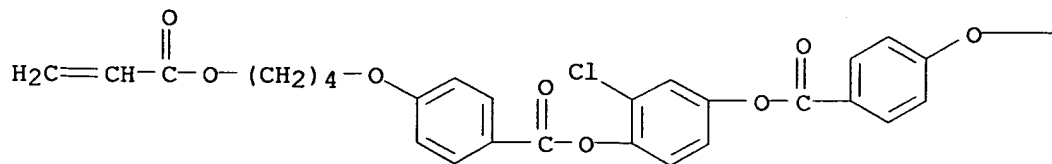
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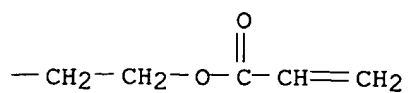
CM 1

CRN 172257-82-8

CMF C32 H29 Cl O10



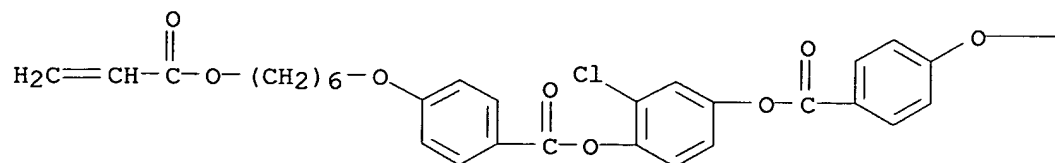
PAGE 1-B



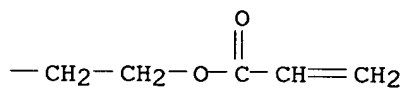
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CRN 172257-81-7
CMF C34 H33 Cl O10

PAGE 1-A



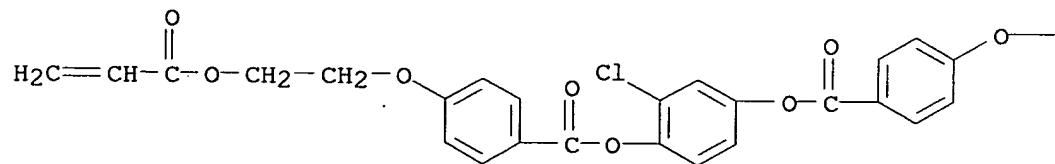
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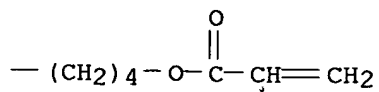
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CRN 172257-80-6
CMF C32 H29 Cl O10

PAGE 1-A



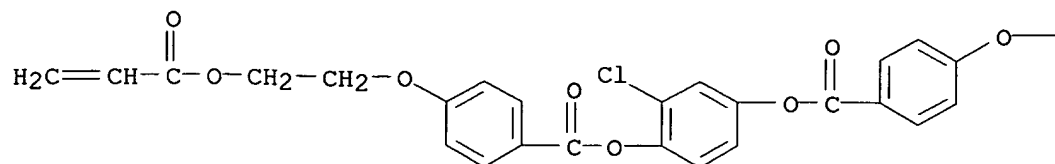
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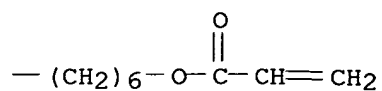
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CRN 172257-79-3
CMF C34 H33 Cl O10

PAGE 1-A



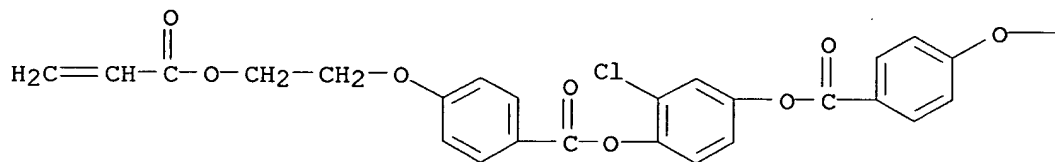
PAGE 1-B



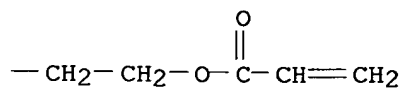
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CRN 172257-78-2
CMF C30 H25 Cl O10

PAGE 1-A



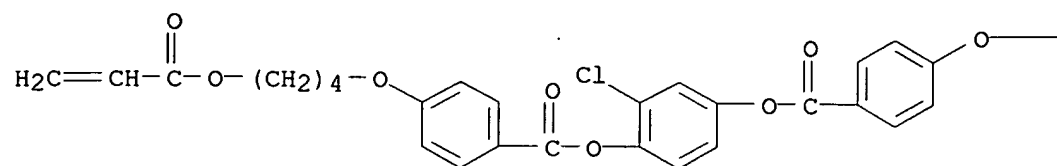
PAGE 1-B



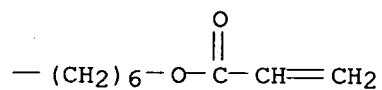
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CRN 172257-75-9
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PAGE 1-A



PAGE 1-B

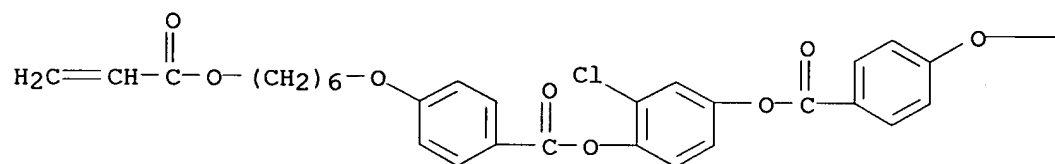


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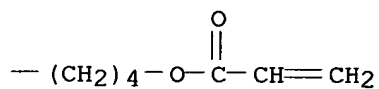
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PAGE 1-A



PAGE 1-B

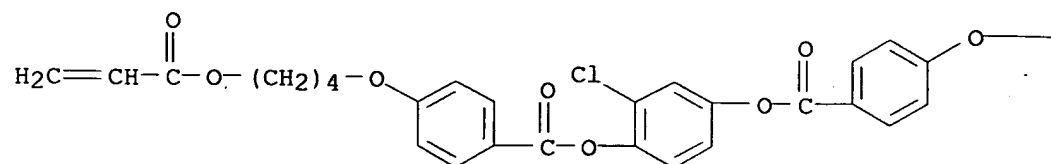


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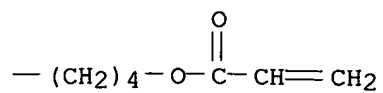
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PAGE 1-A



PAGE 1-B

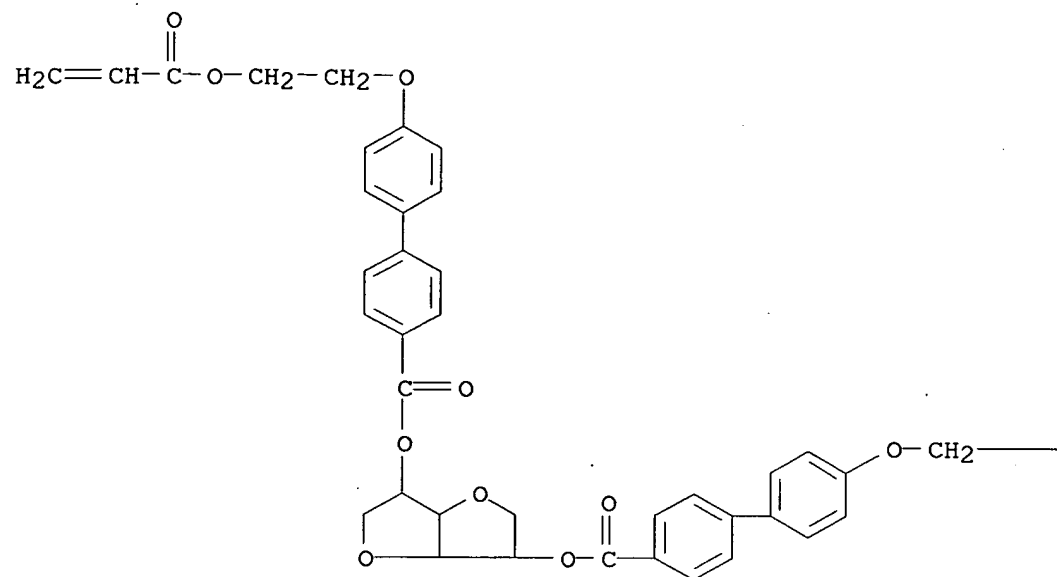


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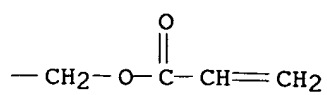
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CMF C42 H38 O12

PAGE 1-A



PAGE 1-B

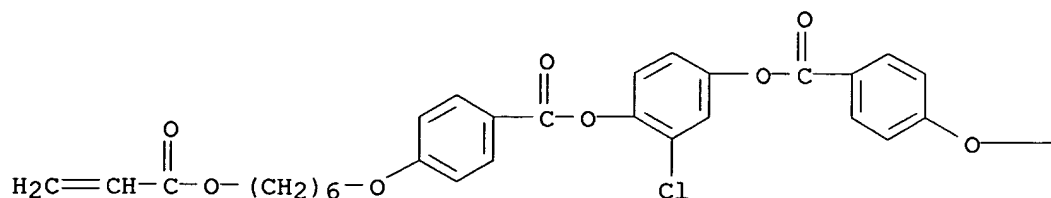


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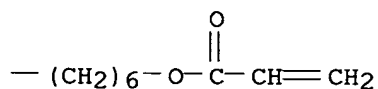
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CMF C38 H41 Cl O10

PAGE 1-A



PAGE 1-B



RN 172931-27-0 CAPLUS

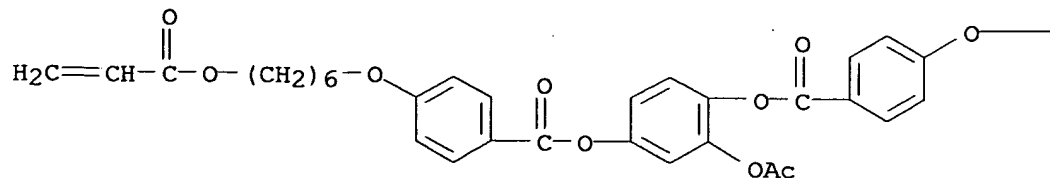
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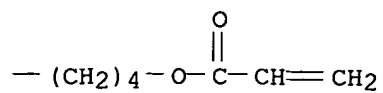
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CRN 172258-05-8

CMF C38 H40 O12

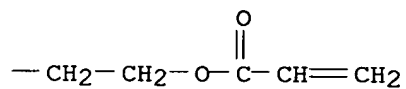
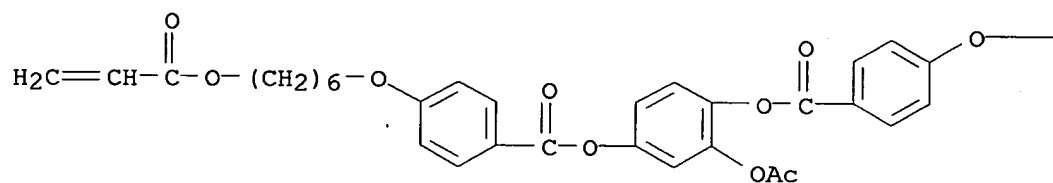
PAGE 1-A





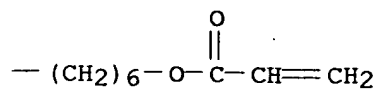
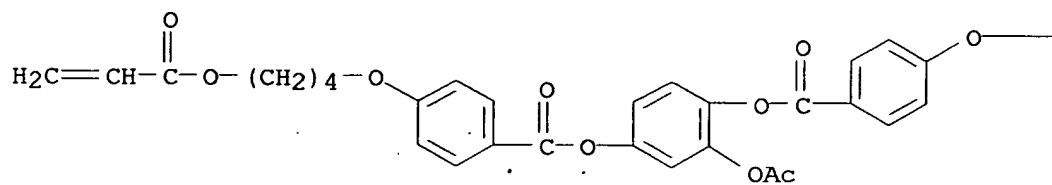
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CRN 172258-04-7
CMF C36 H36 O12



CM 3

CRN 172258-03-6
CMF C38 H40 O12



CM 4

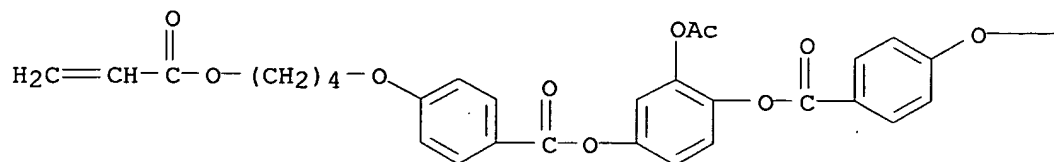
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CMF C34 H32 O12

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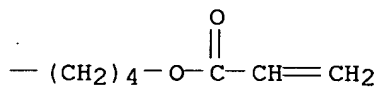
CM 5

CRN 172258-01-4
CMF C36 H36 O12

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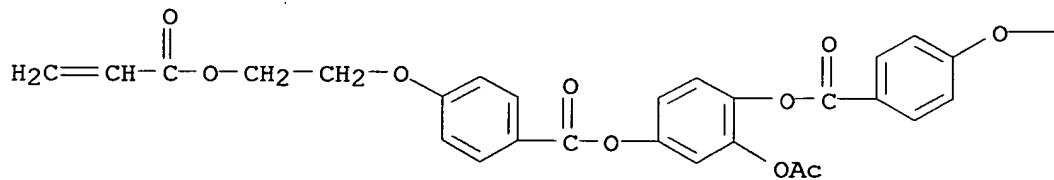
PAGE 1-B



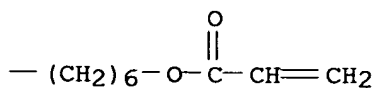
CM 6

CRN 172258-00-3
CMF C36 H36 O12

PAGE 1-A

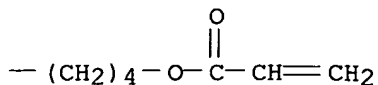
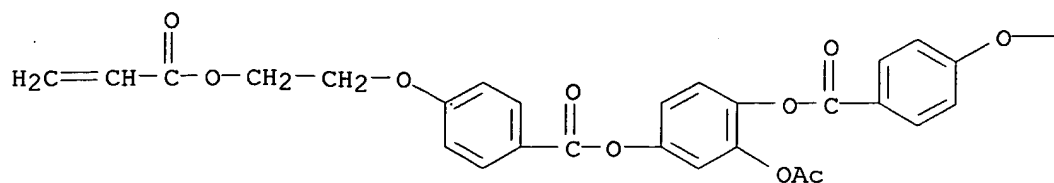


PAGE 1-B



CM 7

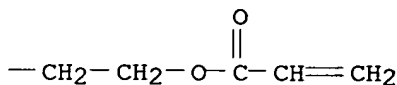
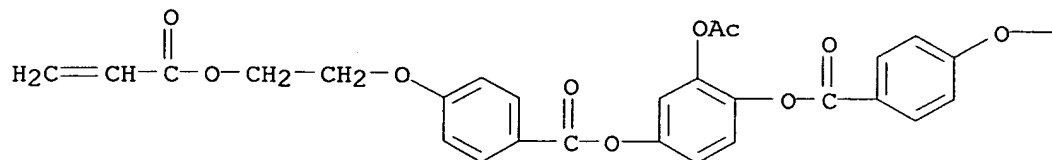
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CMF C34 H32 O12



CM 8

CRN 172257-98-6

CMF C32 H28 O12



RN 172931-28-1 CAPLUS

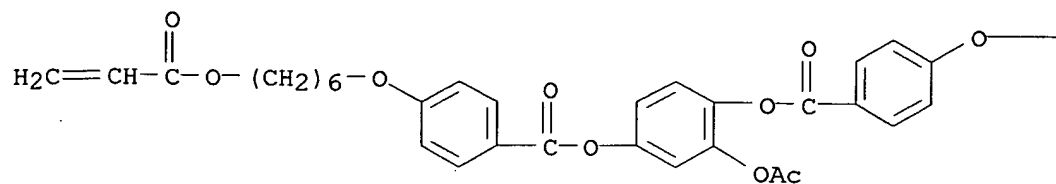
CN D-Glucitol, 1,4:3,6-dianhydro-, bis[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoate], mixt. with 2-(acetyloxy)-4-[[4-[[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-(acetyloxy)-4-[[4-[[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-(acetyloxy)-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 3-(acetyloxy)-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[[4-[(1-oxo-2-propenyl)oxy]butoxy]benzoate, 2-(acetyloxy)-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate, 3-(acetyloxy)-4-[[4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]benzoyl]oxy]phenyl 4-[[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate and 2-(acetyloxy)-1,4-phenylene bis[4-[[2-[(1-oxo-2-propenyl)oxy]ethoxy]benzoate] (9CI) (CA INDEX NAME)

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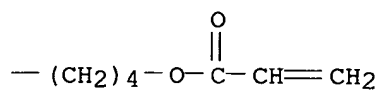
CRN 172258-05-8

CMF C38 H40 O12

PAGE 1-A



PAGE 1-B

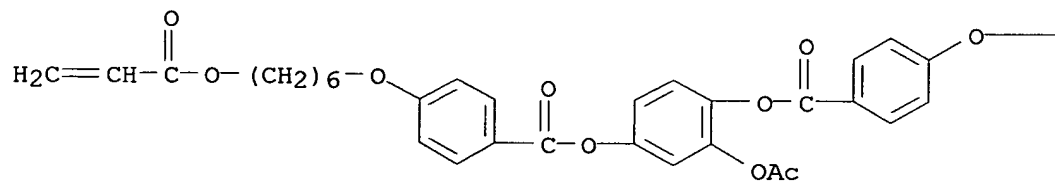


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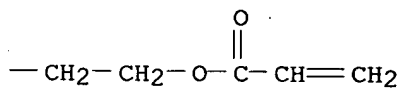
CRN 172258-04-7

CMF C36 H36 O12

PAGE 1-A



PAGE 1-B

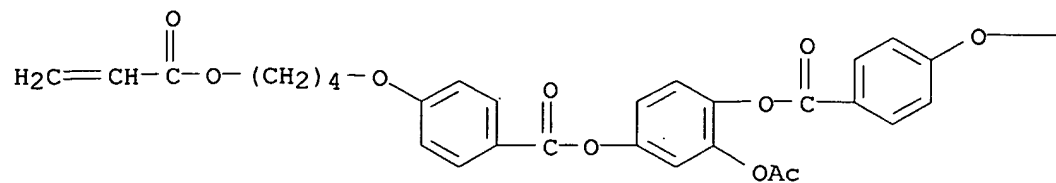


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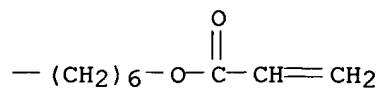
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CMF C38 H40 O12

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CM 4

CRN 172258-02-5

CMF C34 H32 O12

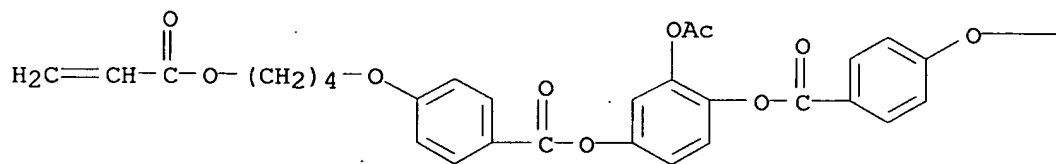
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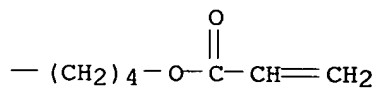
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CMF C36 H36 O12

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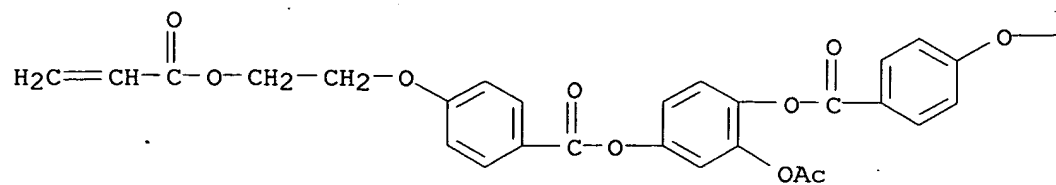


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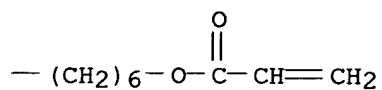
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CMF C36 H36 O12

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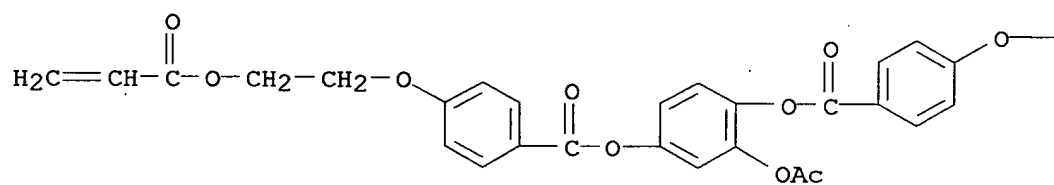
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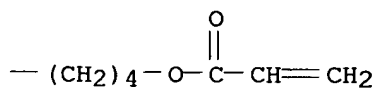
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CRN 172257-99-7
CMF C34 H32 O12

PAGE 1-A



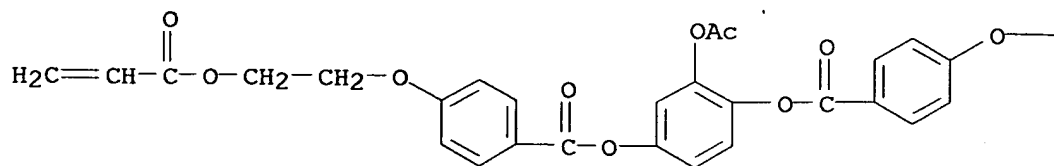
PAGE 1-B

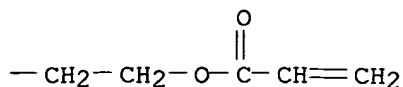


CM 8

CRN 172257-98-6
CMF C32 H28 O12

PAGE 1-A



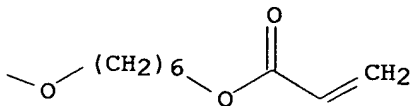
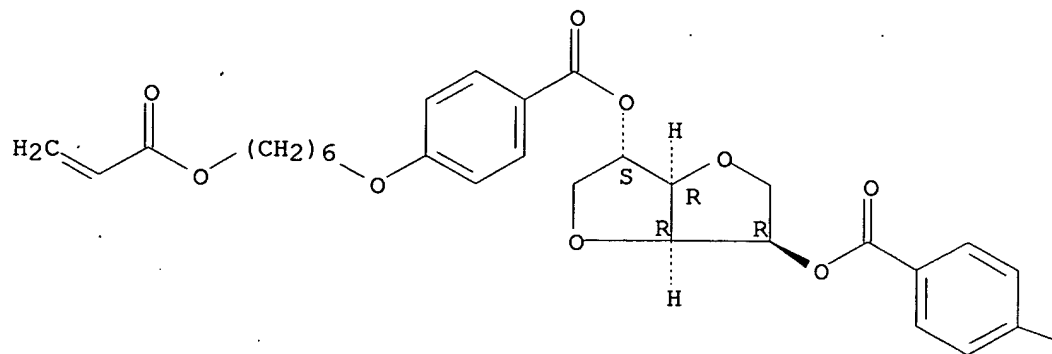


CM 9

CRN 172257-85-1

CMF C38 H46 O12

Absolute stereochemistry.



L11 ANSWER 21 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:335800 CAPLUS
 DOCUMENT NUMBER: 120:335800
 TITLE: Preparation of polymerizable liquid crystal compounds and polymer liquid crystals
 INVENTOR(S): Sato, Koichi; Yoshinaga, Kazuo; Toshida, Yoshi; Eguchi, Gakuo
 PATENT ASSIGNEE(S): Canon Kk, Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 36 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06016616	A	19940125	JP 1992-198991	19920703 <--
JP 3228348	B2	20011112		
PRIORITY APPLN. INFO.:			JP 1992-198991	19920703
OTHER SOURCE(S):	MARPAT 120:335800			
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. (I; R1 = H, alkyl, halo; U, V, W, X, Y = single bond, O, O2C, CO2; a = 0,1; b,f = 0-15; s,d,e = 0-2) and (nematic) polymer liquid crystal compds. having I polymerization compns. are prepared A liquid crystal device

uses a liquid crystal composition containing above polymer liquid crystal compds. Liquid

crystal I copolymers shows excellent film property and suitable for a large area display device with good response speed. Thus, p-(6-acryloyloxyhexyloxy)benzoic acid was refluxed with SOCl2 in PhMe and reacted with 2,3-dicyano-p-hydroquinone in pyridine-THF to give a title compound (II). II was copolymd. with an acrylic acid ester (III) in the presence of azobis(isobutyronitrile) in DMF at 50° for 40 h to give a polymer liquid crystal which showed nematic to isotropic phase transition at 118°.

IT 155502-61-7P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
 (liquid crystal composition, preparation of)

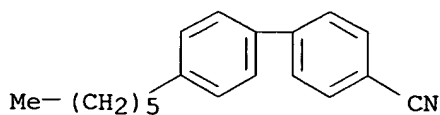
RN 155502-61-7 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2,3-dicyano-1,4-phenylene ester, polymer with 5-[(4'-cyano[1,1'-biphenyl]-4-yl)oxy]pentyl 2-propenoate, mixt. with 4'-hexyl[1,1'-biphenyl]-4-carbonitrile (9CI) (CA INDEX NAME)

CM 1

CRN 41122-70-7

CMF C19 H21 N



CM 2

CRN 155502-60-6

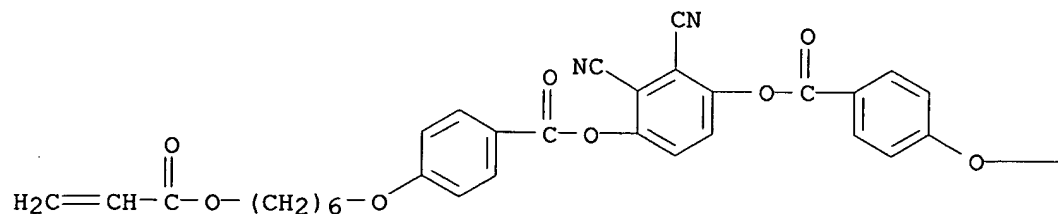
CMF (C40 H40 N2 O10 . C21 H21 N O3)x

CCI PMS

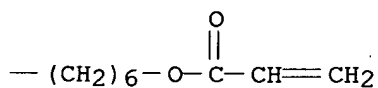
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CRN 150809-91-9
CMF C40 H40 N2 O10

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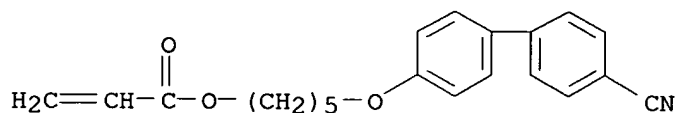


PAGE 1-B



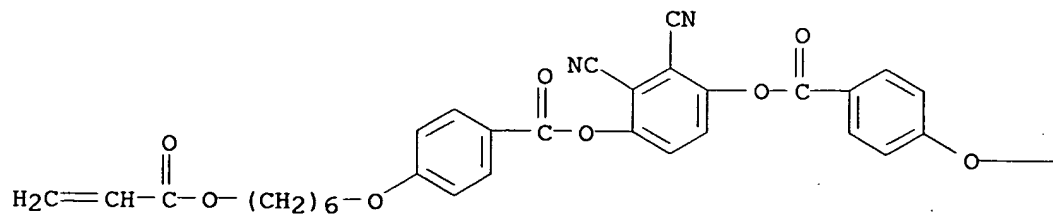
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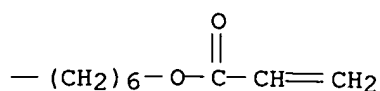
CRN 78475-02-2
CMF C21 H21 N O3



IT 150809-91-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and copolymn. of, with acrylic acid ester)
RN 150809-91-9 CAPLUS
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
2,3-dicyano-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A





IT 155502-60-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, as polymer liquid crystal)

RN 155502-60-6 CAPLUS

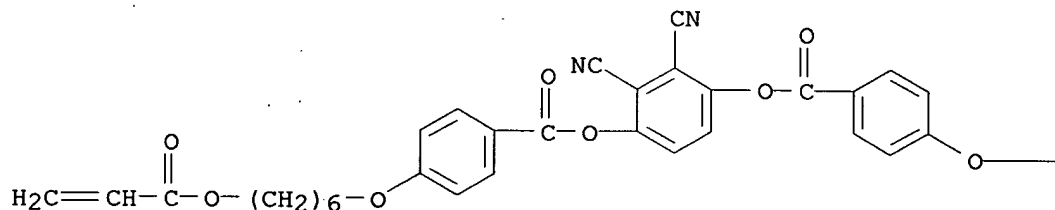
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
2,3-dicyano-1,4-phenylene ester, polymer with 5-[(4'-cyano[1,1'-biphenyl]-
4-yl)oxy]pentyl 2-propenoate (9CI) (CA INDEX NAME)

CM 1

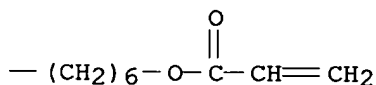
CRN 150809-91-9

CMF C40 H40 N2 O10

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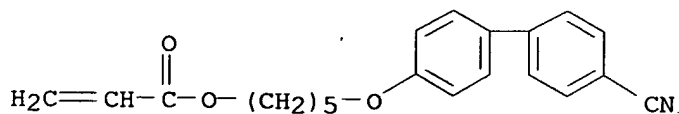
PAGE 1-B



CM 2

CRN 78475-02-2

CMF C21 H21 N O3



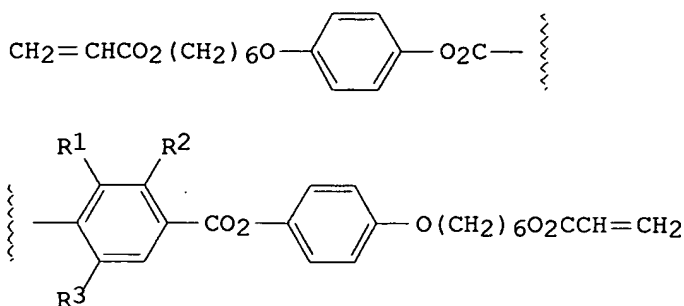
L11 ANSWER 22 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:671752 CAPLUS

DOCUMENT NUMBER: 119:271752

TITLE: In situ photopolymerized, oriented liquid-crystalline

diacrylates with high thermal conductivities
 AUTHOR(S): Geibel, Kurt; Hammerschmidt, Albert; Strohmer, Franz
 CORPORATE SOURCE: Siemens AG, Erlangen, W-8520, Germany
 SOURCE: Advanced Materials (Weinheim, Germany) (1993
), 5(2), 107-9
 CODEN: ADVMEW; ISSN: 0935-9648
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 GI



AB In a series of liquid-crystalline monomers having the structure I, where R1 = H or Me, R2 = H, Me, MeO, Cl or MeCO and R3 = H or Me, lateral groups generally reduced phase transition temps. by steric effects, decreasing the van der Waals forces between rodlike mesogenic units. The electronic character of the groups affected the stability and width of the temperature range of the nematic phase. The I (R1 and R3 = H, R2 = Cl) showed a narrow nematic temperature range, whereas I (R1 and R3 = H, R2 = MeO) and I (II;

R1 and R3 = H, R2 = MeCO) with substituents enlarging the π -system of the mesogen unit had a wider nematic temperature range. Thin ordered polymer films were prepared by spin-coating solns. of I (III; R1 = R2 = R3 = H) and II onto uniformly rubbed polyimide coatings on Si wafers, drying at a temperature in the range of the nematic phase of the liquid crystal to remove the solvent, and crosslinking the monomer layers by irradiation under N with a Hg high-pressure lamp. The thermal conductivity for III and II parallel to the direction of order was higher by a factor of 13 and 20, resp., than the value perpendicular to the direction of order. The increase of the thermal conductivity parallel to the orientation could be correlated with the degree of order, whereas the thermal conductivity perpendicular to the orientation was of the same size as the isotropic material.

IT 123864-17-5 125248-71-7 150809-90-8
 151517-51-0 151518-94-4 151518-95-5
 151518-96-6

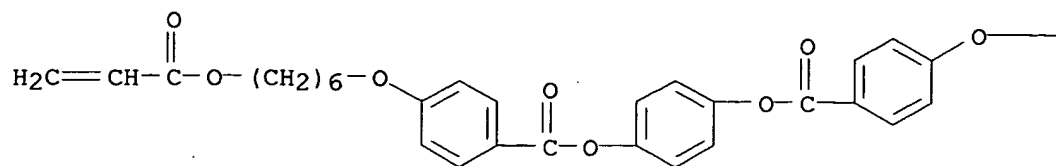
RL: USES (Uses)

(liquid crystalline, phase transition temps. and heat and entropy of transition of)

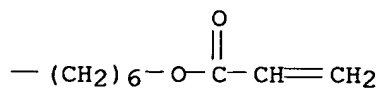
RN 123864-17-5 CAPLUS

CN Benzoic acid, 4-[[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



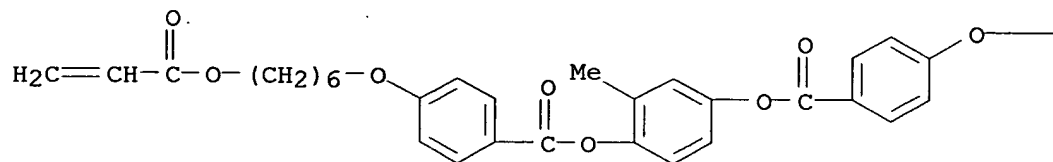
PAGE 1-B



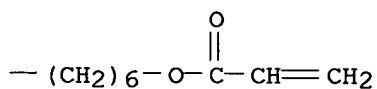
RN 125248-71-7 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



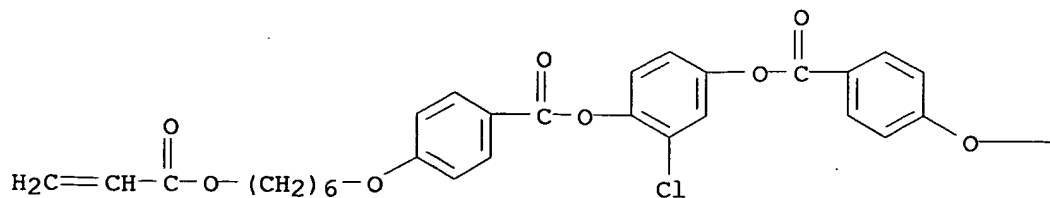
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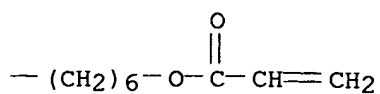


RN 150809-90-8 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-chloro-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A

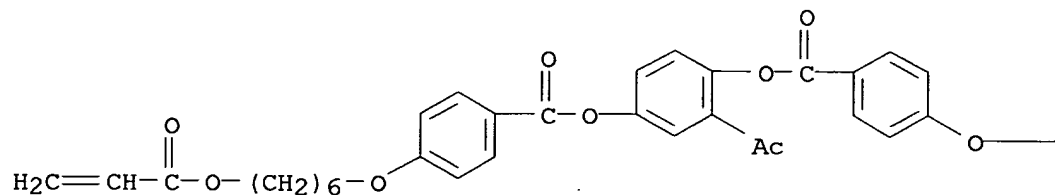




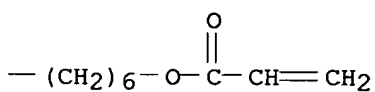
RN 151517-51-0 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
2-acetyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



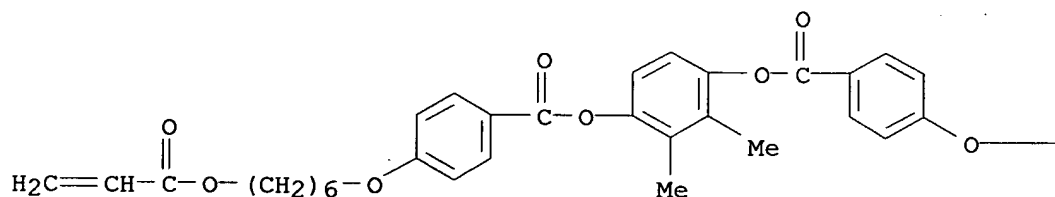
PAGE 1-B



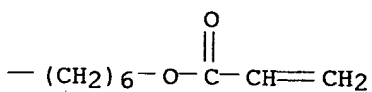
RN 151518-94-4 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
2,3-dimethyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



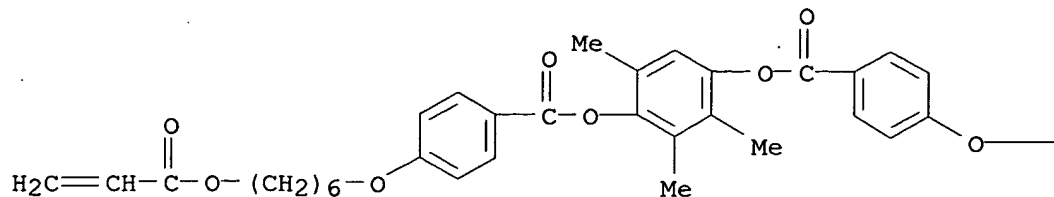
PAGE 1-B



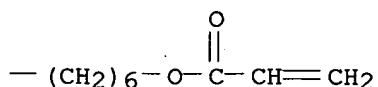
RN 151518-95-5 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-,
2,3,5-trimethyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



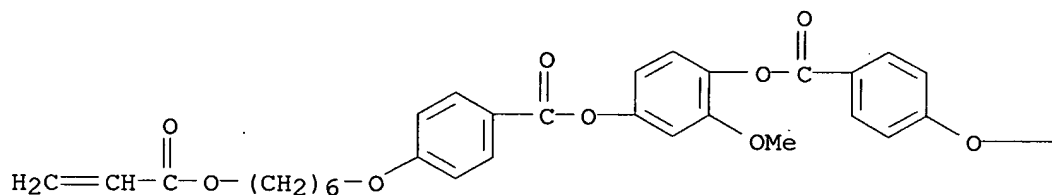
PAGE 1-B



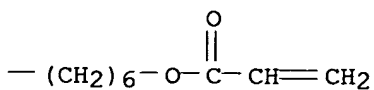
RN 151518-96-6 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methoxy-1,4-phenylene ester (9CI) (CA INDEX NAME)

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IT 123864-18-6P 151517-52-1P

RL: SPN (Synthetic preparation); PREP (Preparation)

(liquid crystalline, preparation and thermal properties of thin films of)

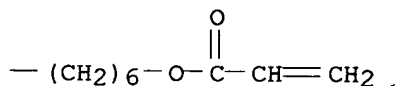
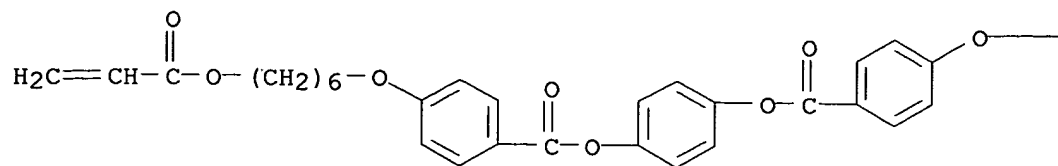
RN 123864-18-6 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 123864-17-5

CMF C38 H42 O10



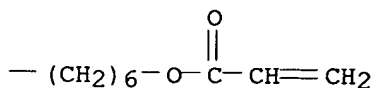
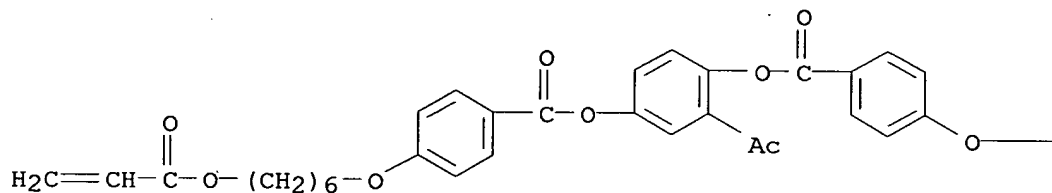
RN 151517-52-1 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-acetyl-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 151517-51-0

CMF C40 H44 O11



L11 ANSWER 23 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1991:144125 CAPLUS

DOCUMENT NUMBER: 114:144125

TITLE: In-situ photopolymerization of oriented liquid-crystalline acrylates. 5. Influence of the alkylene spacer on the properties of the mesogenic monomers and the formation and properties of oriented polymer networks

AUTHOR(S): Broer, Dirk J.; Mol, Grietje N.; Challa, Ger

CORPORATE SOURCE: Philips Res. Lab., Eindhoven, 5600 JA, Neth.

SOURCE: Makromolekulare Chemie (1991), 192(1), 59-74

CODEN: MACEAK; ISSN: 0025-116X

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The photoinitiated bulk polymerization of macroscopically oriented liquid-crystalline

1,4-phenylene bis[4-(ω - acryloyloxyalkyloxy)benzoates] produces densely crosslinked oriented polymer networks. The influence of the length of the alkylene spacer (C4-11) between the aromatic central core and the polymerizable acrylate end groups on the mesomorphic behavior of the monomer, the mol. orientation in the monomeric and polymeric state, and the process of photoinitiated polymerization in the ordered state is studied. Some optical properties of the oriented networks are presented.

IT 132900-74-4 132900-75-5 132900-76-6

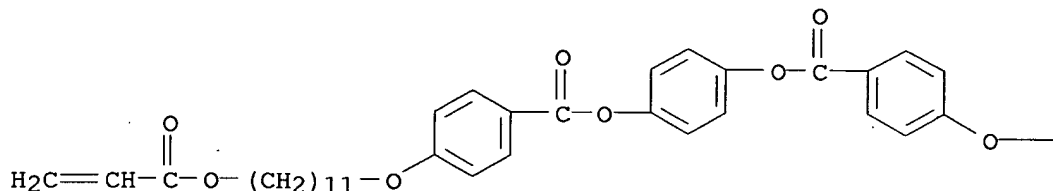
RL: PRP (Properties)

(enthalpy and entropy of transition of, photopolymn. in relation to)

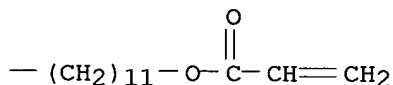
RN 132900-74-4 CAPLUS

CN Benzoic acid, 4-[[11-[(1-oxo-2-propenyl)oxy]undecyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A



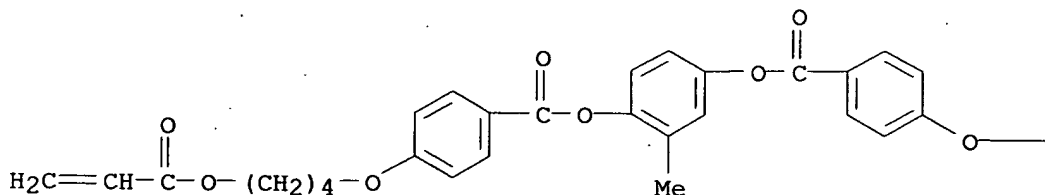
PAGE 1-B

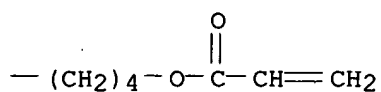


RN 132900-75-5 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A

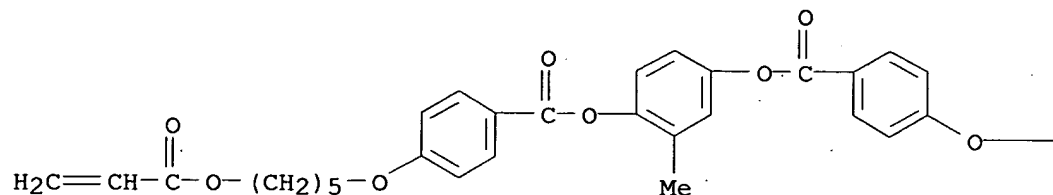




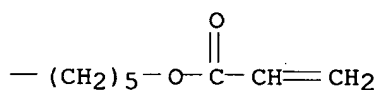
RN 132900-76-6 CAPLUS

CN Benzoic acid, 4-[[5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]-,
2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

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PAGE 1-B



IT 123864-17-5 125240-26-8 125248-71-7

132694-65-6 132694-67-8 132694-69-0

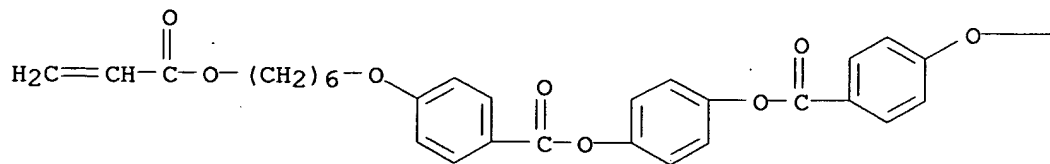
RL: RCT (Reactant); RACT (Reactant or reagent)

(mesomorphism and photopolymn. of, orientation in relation to)

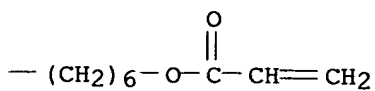
RN 123864-17-5 CAPLUS

CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene
ester (9CI) (CA INDEX NAME)

PAGE 1-A

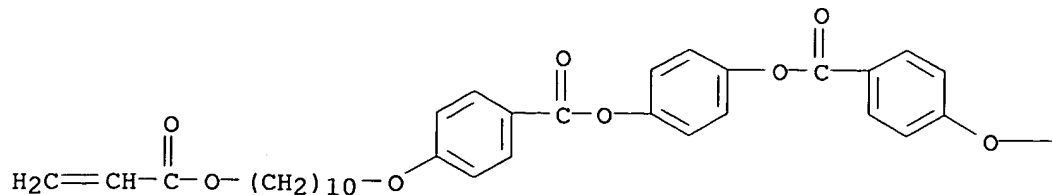


PAGE 1-B

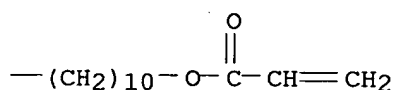


RN 125240-26-8 CAPLUS
 CN Benzoic acid, 4-[[10-[(1-oxo-2-propenyl)oxy]decyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A

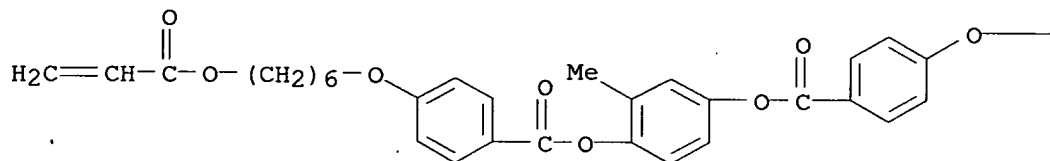


PAGE 1-B

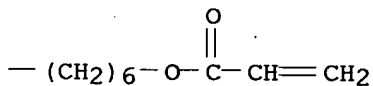


RN 125248-71-7 CAPLUS
 CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester (9CI) (CA INDEX NAME)

PAGE 1-A

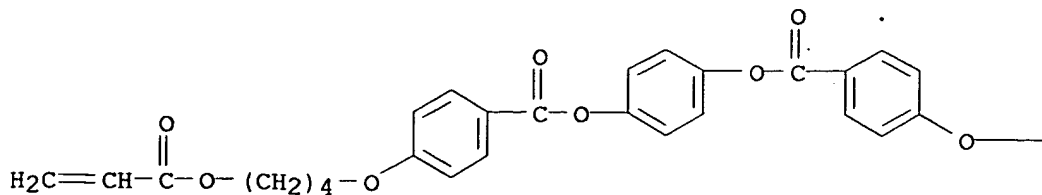


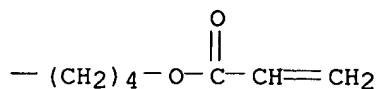
PAGE 1-B



RN 132694-65-6 CAPLUS
 CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

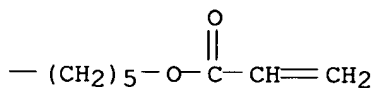
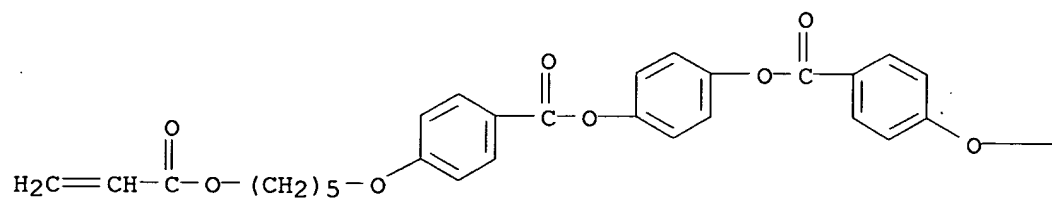
PAGE 1-A





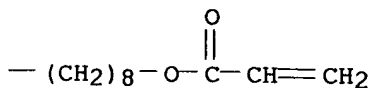
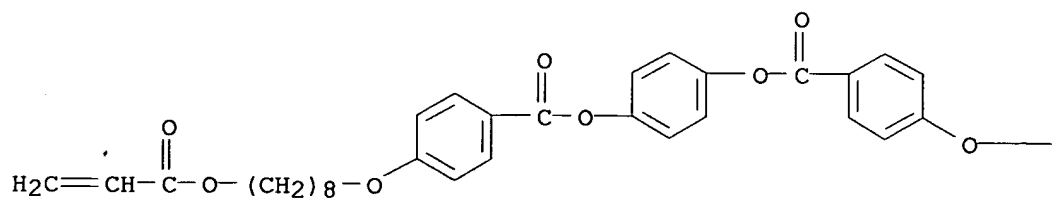
RN 132694-67-8 CAPLUS

CN Benzoic acid, 4-[[5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)



RN 132694-69-0 CAPLUS

CN Benzoic acid, 4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)

IT 123864-18-6P 125248-72-8P 132694-66-7P
132694-68-9P 132694-70-3P 132694-71-4P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and order parameters and optical properties of oriented)

RN 123864-18-6 CAPLUS

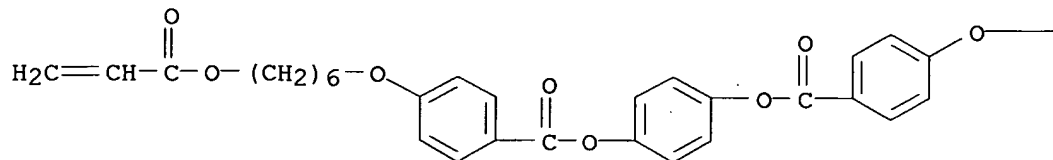
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

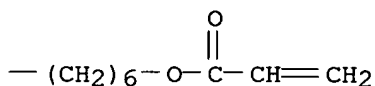
CRN 123864-17-5

CMF C38 H42 O10

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RN 125248-72-8 CAPLUS

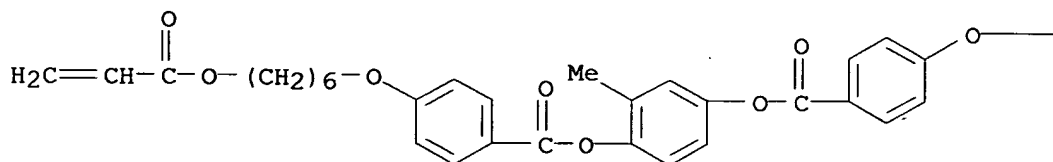
CN Benzoic acid, 4-[[6-[(1-oxo-2-propenyl)oxy]hexyl]oxy]-, 2-methyl-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

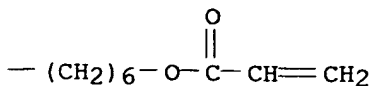
CRN 125248-71-7

CMF C39 H44 O10

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PAGE 1-B



RN 132694-66-7 CAPLUS

CN Benzoic acid, 4-[4-[(1-oxo-2-propenyl)oxy]butoxy]-, 1,4-phenylene ester,

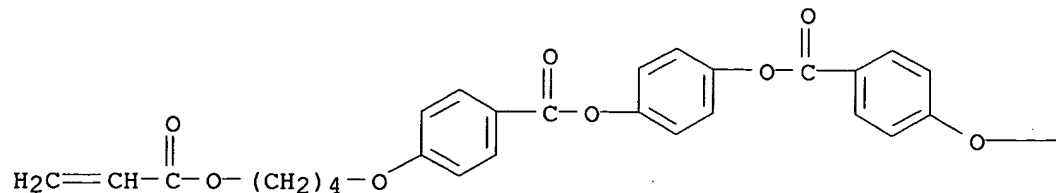
homopolymer (9CI) (CA INDEX NAME)

CM 1

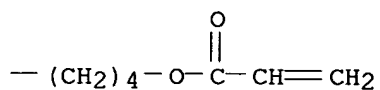
CRN 132694-65-6

CMF C34 H34 O10

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RN 132694-68-9 CAPLUS

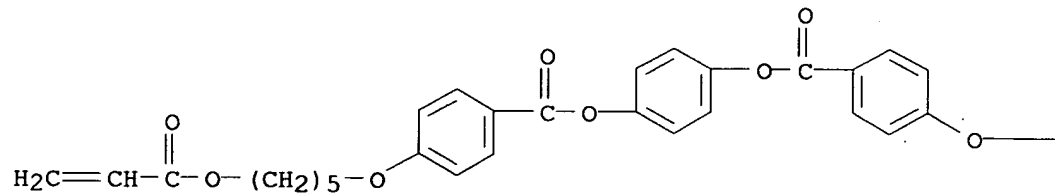
CN Benzoic acid, 4-[[5-[(1-oxo-2-propenyl)oxy]pentyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

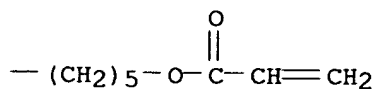
CRN 132694-67-8

CMF C36 H38 O10

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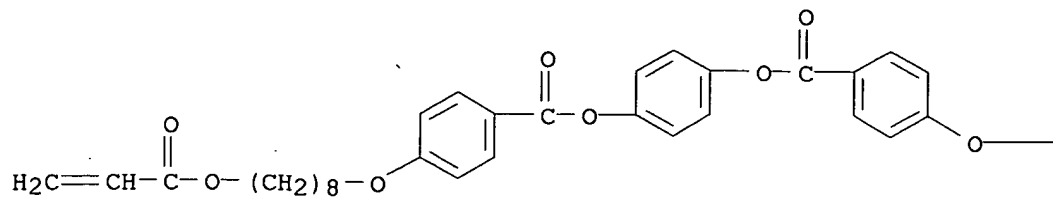
RN 132694-70-3 CAPLUS

CN Benzoic acid, 4-[[8-[(1-oxo-2-propenyl)oxy]octyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

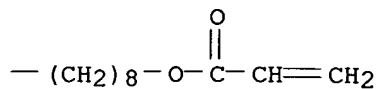
CM 1

CRN 132694-69-0
CMF C42 H50 O10

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PAGE 1-B

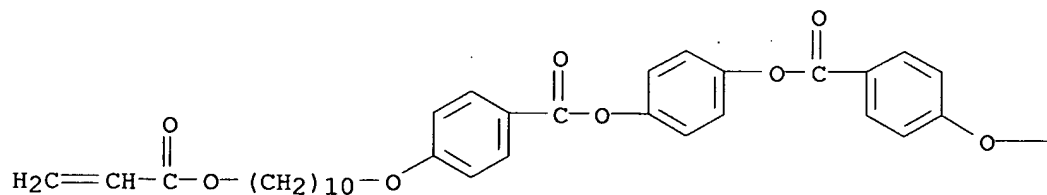


RN 132694-71-4 CAPLUS
CN Benzoic acid, 4-[[10-[(1-oxo-2-propenyl)oxy]decyl]oxy]-, 1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

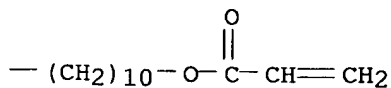
CM 1

CRN 125240-26-8
CMF C46 H58 O10

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L11 ANSWER 24 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:574729 CAPLUS
DOCUMENT NUMBER: 111:174729
TITLE: Thermotropic poly(ester-β-sulfides). A new polymer series containing the p-phenylene

di(p-oxybenzoate) unit
 AUTHOR(S): Galli, Giancarlo; Chiellini, Emo; Laus, Michele;
 Angeloni, Annino S.
 CORPORATE SOURCE: Dip. Chim. Chim. Ind., Univ. Pisa, Pisa, I-56100,
 Italy
 SOURCE: Polymer Bulletin (Berlin, Germany) (1989),
 21(6), 563-9
 CODEN: POBUDR; ISSN: 0170-0839
 DOCUMENT TYPE: Journal
 LANGUAGE: English

AB A new series of thermotropic liquid-crystalline poly(ester- β -sulfides)
 (HQH) $_n$ was prepared which contained the p-phenylene di(p-oxybenzoate) (HQH)
 unit. The thermodyn. parameters of the nematic-isotropic melt phase
 transition were analyzed in terms of the number n of methylene groups in the
 sulfide spacer segment ($n = 2$ to 10). The flexible segment
 behaved principally as a diluent of the mesogen, in contrast
 with previously studied poly(ester- β -sulfides) containing different
 mesogenic groups.

IT 123349-63-3P 123349-64-4P 123349-65-5P
 123349-66-6P 123349-67-7P 123349-68-8P
 123349-69-9P 123349-70-2P 123349-71-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
 (liquid-crystalline, thermotropic, preparation, viscosity and thermal
 properties
 of)

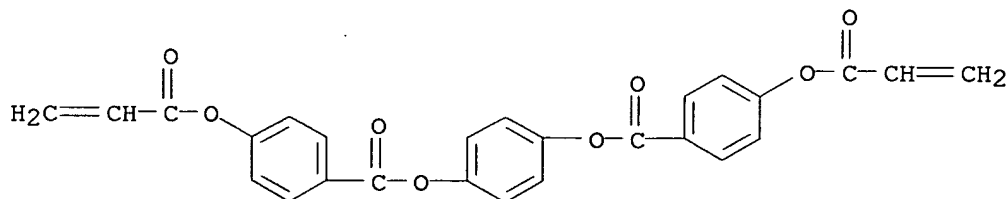
RN 123349-63-3 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer
 with 1,2-ethanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 540-63-6

CMF C2 H6 S2

HS-CH₂-CH₂-SH

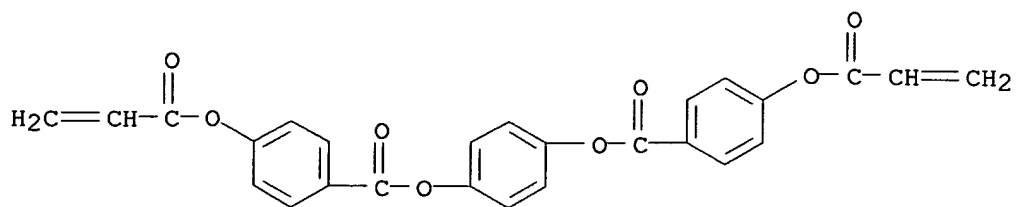
RN 123349-64-4 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer
 with 1,3-propanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 109-80-8

CMF C3 H8 S2



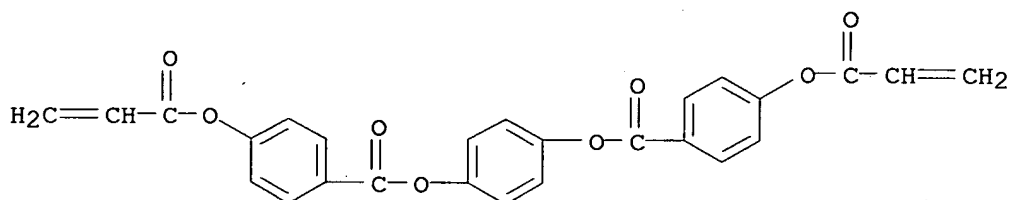
RN 123349-65-5 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,4-butanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

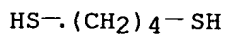
CMF C26 H18 O8



CM 2

CRN 1191-08-8

CMF C4 H10 S2



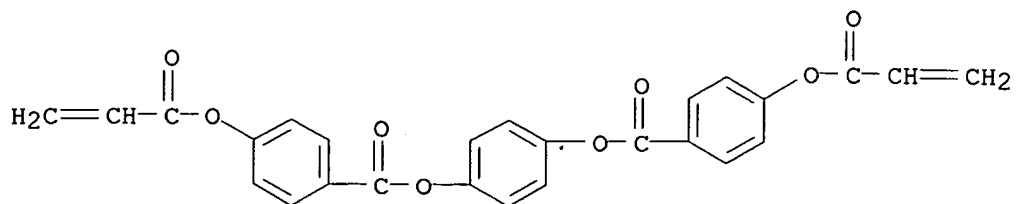
RN 123349-66-6 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,5-pentanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 928-98-3

CMF C5 H12 S2

HS-(CH₂)₅-SH

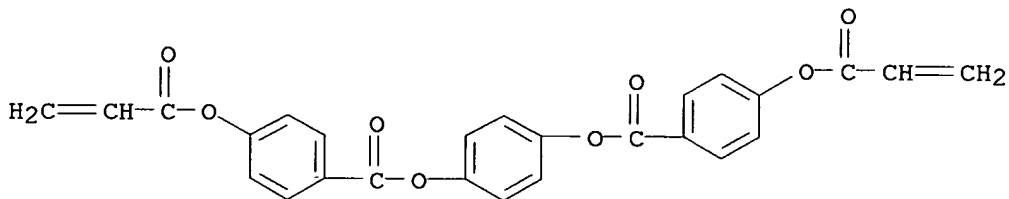
RN 123349-67-7 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,6-hexanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 1191-43-1

CMF C6 H14 S2

HS-(CH₂)₆-SH

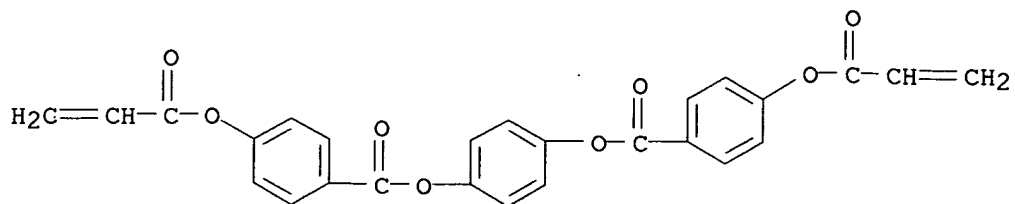
RN 123349-68-8 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,7-heptanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 62224-02-6

CMF C7 H16 S2

HS-(CH₂)₇-SH

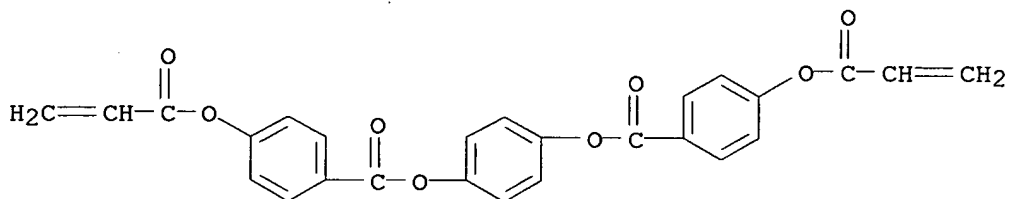
RN 123349-69-9 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,8-octanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 1191-62-4

CMF C8 H18 S2

HS-(CH₂)₈-SH

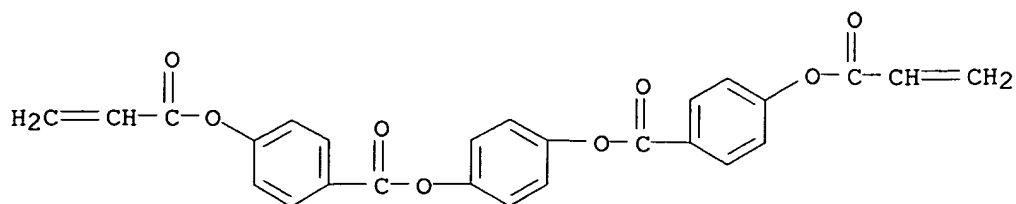
RN 123349-70-2 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,9-nonanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 3489-28-9

CMF C9 H20 S2

HS-(CH₂)₉-SH

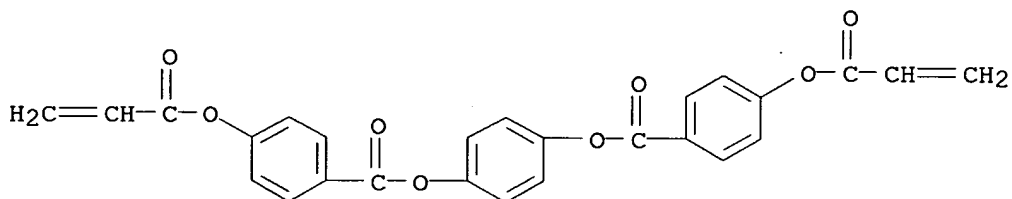
RN 123349-71-3 CAPLUS

CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester, polymer with 1,10-decanedithiol (9CI) (CA INDEX NAME)

CM 1

CRN 91442-58-9

CMF C26 H18 O8



CM 2

CRN 1191-67-9

CMF C10 H22 S2

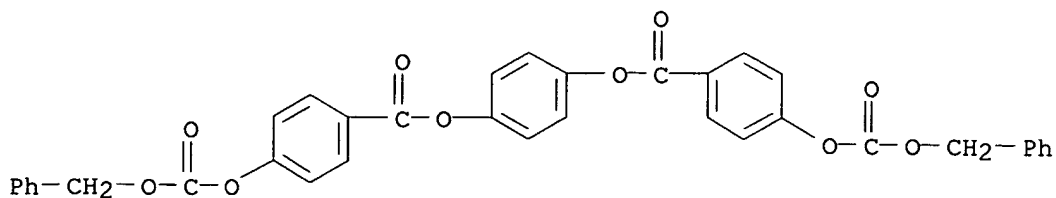
HS-(CH₂)₁₀-SH

IT 123391-57-1P

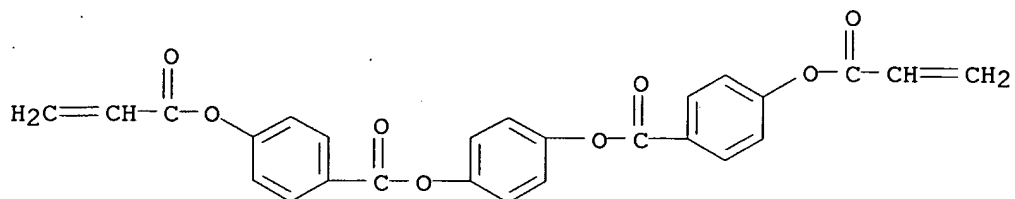
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and hydrogenation of)

RN 123391-57-1 CAPLUS

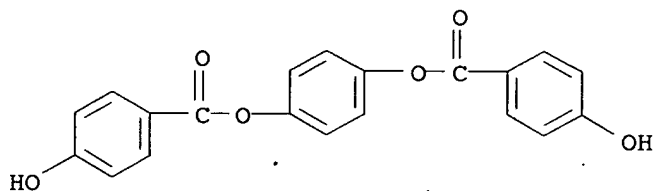
CN Benzoic acid, 4-[[[(phenylmethoxy)carbonyl]oxy]-, 1,4-phenylene ester (9CI) (CA INDEX NAME)



IT 91442-58-9P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and polymerization of, with alkyl dithiols)
 RN 91442-58-9 CAPLUS
 CN Benzoic acid, 4-[(1-oxo-2-propenyl)oxy]-, 1,4-phenylene ester (9CI) (CA
 INDEX NAME)



IT 53201-62-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reaction of, with acryloyl chloride)
 RN 53201-62-0 CAPLUS
 CN Benzoic acid, 4-hydroxy-, 1,4-phenylene ester (9CI) (CA INDEX NAME)



L11 ANSWER 25 OF 25 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:205160 CAPLUS

DOCUMENT NUMBER: 108:205160

TITLE: Synthesis of a new class of side-chain liquid crystal
 polymers - polymers with mesogens laterally attached
 via short linkages to polymer backbones

AUTHOR(S): Zhou, Qifeng; Li, Huimin; Feng, Xinde

CORPORATE SOURCE: Chem. Dep., Peking Univ., Beijing, 100871, Peop. Rep.
 China

SOURCE: Molecular Crystals and Liquid Crystals (1988
), 155(Pt. B), 73-82

CODEN: MCLCA5; ISSN: 0026-8941

DOCUMENT TYPE: Journal

LANGUAGE: English

AB 2,5-Bis(4-alkoxybenzoyloxy)benzyl acrylates were synthesized and polymerized
 to give liquid-crystalline polyacrylates. Above the glass transition
 temperature, all

the polymers had a stable mesophase as revealed by DSC and a polarizing microscope. The glass transition and the isotropization temps. were .apprx.100° and .apprx.169°, resp., both varying with the size of the alkoxy substituents in the mesogens.

IT 105280-90-8P 114374-52-6P 114374-54-8P

RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(liquid-crystalline, preparation and properties of)

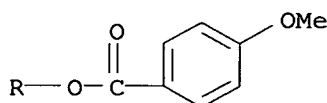
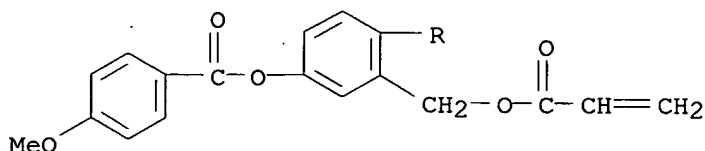
RN 105280-90-8 CAPLUS

CN Benzoic acid, 4-methoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 105252-92-4

CMF C26 H22 O8



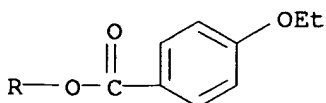
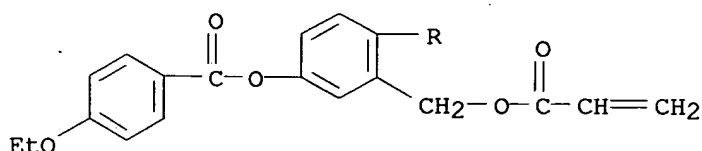
RN 114374-52-6 CAPLUS

CN Benzoic acid, 4-ethoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

CRN 114374-51-5

CMF C28 H26 O8

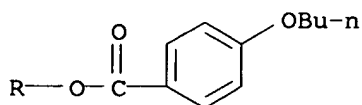
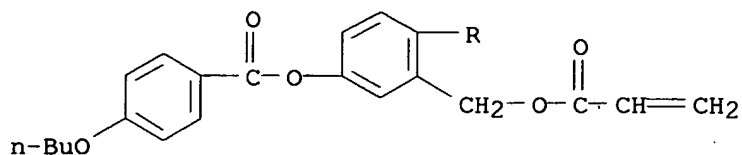


RN 114374-54-8 CAPLUS

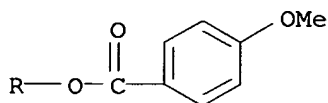
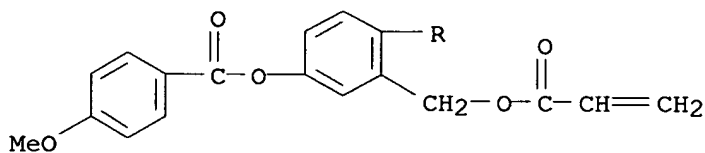
CN Benzoic acid, 4-butoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester, homopolymer (9CI) (CA INDEX NAME)

CM 1

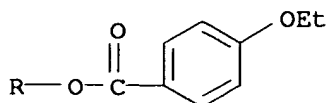
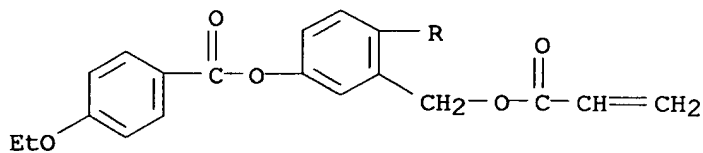
CRN 114374-53-7



IT 105252-92-4P, 2,5-Bis(4-methoxybenzoyloxy)benzyl acrylate
 114374-51-5P, 2,5-Bis(4-ethoxybenzoyloxy)benzyl acrylate
 114374-53-7P, 2,5-Bis(4-butoxybenzoyloxy)benzyl acrylate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and polymerization of)
 RN 105252-92-4 CAPLUS
 CN Benzoic acid, 4-methoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene
 ester (9CI) (CA INDEX NAME)

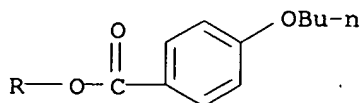
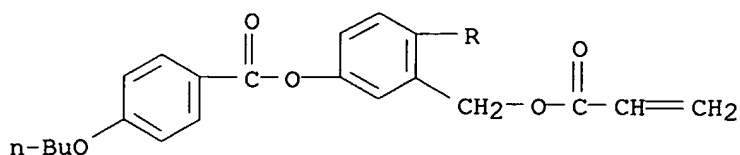


RN 114374-51-5 CAPLUS
 CN Benzoic acid, 4-ethoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene
 ester (9CI) (CA INDEX NAME)

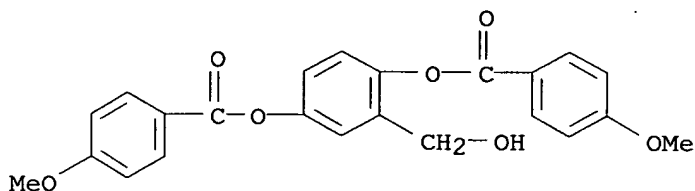


RN 114374-53-7 CAPLUS

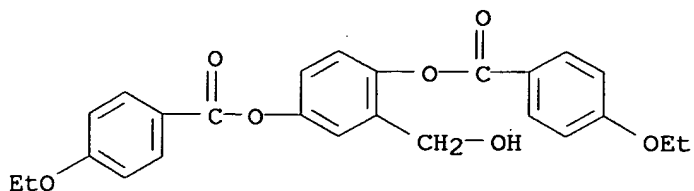
CN Benzoic acid, 4-butoxy-, 2-[[[(1-oxo-2-propenyl)oxy]methyl]-1,4-phenylene ester (9CI) (CA INDEX NAME)



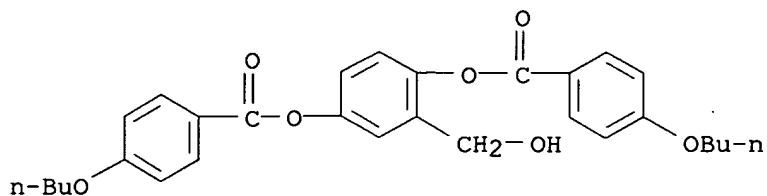
IT 105252-91-3P, 2,5-Bis(4-methoxybenzoyloxy)benzyl alcohol
 114480-35-2P, 2,5-Bis(4-ethoxybenzoyloxy)benzyl alcohol
 114480-36-3P, 2,5-Bis(4-butoxybenzoyloxy)benzyl alcohol
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, with acryloyl chloride)
 RN 105252-91-3 CAPLUS
 CN Benzoic acid, 4-methoxy-, 2-(hydroxymethyl)-1,4-phenylene ester (9CI) (CA INDEX NAME)



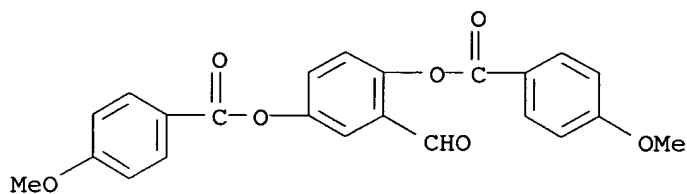
RN 114480-35-2 CAPLUS
 CN Benzoic acid, 4-ethoxy-, 2-(hydroxymethyl)-1,4-phenylene ester (9CI) (CA INDEX NAME)



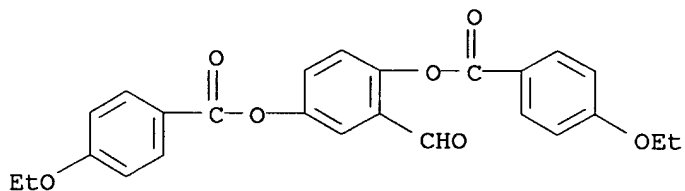
RN 114480-36-3 CAPLUS
 CN Benzoic acid, 4-butoxy-, 2-(hydroxymethyl)-1,4-phenylene ester (9CI) (CA INDEX NAME)



IT 105252-90-2P, 2,5-Bis(4-methoxybenzoyloxy)benzaldehyde
 114480-33-0P, 2,5-Bis(4-ethoxybenzoyloxy)benzaldehyde
 114480-34-1P, 2,5-Bis(4-butoxybenzoyloxy)benzaldehyde
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation and reduction of)
 RN 105252-90-2 CAPLUS
 CN Benzoic acid, 4-methoxy-, 2-formyl-1,4-phenylene ester (9CI) (CA INDEX
 NAME)



RN 114480-33-0 CAPLUS
 CN Benzoic acid, 4-ethoxy-, 2-formyl-1,4-phenylene ester (9CI) (CA INDEX
 NAME)



RN 114480-34-1 CAPLUS
 CN Benzoic acid, 4-butoxy-, 2-formyl-1,4-phenylene ester (9CI) (CA INDEX
 NAME)

